

IN THE UNITED STATES DISTRICT COURT
IN AND FOR THE DISTRICT OF DELAWARE

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IDENIX PHARMACEUTICALS, LLC, and
UNIVERSITA DEGLI STUDI DI CAGLIARI, : CIVIL ACTION
:
Plaintiff, :
:
v :
:
GILEAD SCIENCES, INC. :
:
Defendant. : NO. 14-846-LPS

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Wilmington, Delaware
Thursday, September 7, 2017
Oral Argument Hearing

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BEFORE: HONORABLE LEONARD A. STARK, Chief Judge

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APPEARANCES:

ASHBY & GEDDES, P.A.
BY: JOHN G. DAY, ESQ.

and

JONES DAY
BY: CALVIN P. GRIFFITH, ESQ.,
RYAN B. McCRUM, ESQ.,
MICHAEL S. WEINSTEIN, ESQ., and
BRADLEY W. HARRISON, ESQ.
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and

Valerie Gunning
Official Court Reporter

Brian P. Gaffigan
Official Court Reporter

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P R O C E E D I N G S

(REPORTER'S NOTE: The following oral argument hearing was held in open court, beginning at 11:09 a.m.)

THE COURT: Good morning, everyone.

(The attorneys respond, "Good morning, Your Honor.")

THE COURT: I'll have you put your appearances on the record for us, please.

MS. PARKER: Good morning, Your Honor.
Stephanie Parker.

THE COURT: Good morning.

MR. DAY: Good morning, Your Honor.

THE COURT: Good morning.

MR. DAY: John Day from Ashby & Geddes for plaintiff Idenix. Stephanie Parker, Calvin Griffith, Ryan McCrum, and Michael Weinstein, all from Jones Day at counsel table. Jennifer Swize, Brian Lea, that is spelled L-e-a, in the second row. And then in the gallery, John Kinton, Anthony Insogna, Bradley Harrison. And behind them, Greg Castanias also from Jones Day.

THE COURT: Okay. Thank you. Welcome again to all of you.

Good morning.

MR. McCANN: Doug McCann from Fish & Richardson

1 on behalf of Gilead. With me are John Singer, Chad Shear,
2 Frank Scherkenbach, Joseph Warden, Martina Hufnal, all of
3 Fish & Richardson. Jason Sheasby of Irell & Manella on
4 behalf of Gilead. And from our client, Brett Pletcher,
5 Lorie Ann Morgan, and Andrea Hutchison.

6 THE COURT: Okay. Welcome to all of you as
7 well. So we're here for argument on multiple motions, let's
8 call them. Have you all conferred how you might like to
9 present them today?

10 MR. SCHERKENBACH: We did, Your Honor.

11 THE COURT: Okay.

12 MR. SCHERKENBACH: And unless the Court has a
13 different order in mind, the parties agreed that we would
14 start with Gilead's motion on the 112 issues, both written
15 description and enablement.

16 Followed by Gilead's motion on damages.

17 Followed by Idenix's motions on
18 enhancement/fees.

19 THE COURT: And that is agreeable to the
20 plaintiff; correct?

21 MR. GRIFFITH: It is, Your Honor.

22 THE COURT: That's fine.

23 MR. SCHERKENBACH: Thank you. Mr. Singer will
24 address the 112 issues for Gilead.

25 THE COURT: Okay. Then we will begin with that.

1 MR. SINGER: Permission to approach, Your Honor.
2 I have some handouts.

3 THE COURT: Certainly.

4 (Slides passed forward.)

5 MR. SINGER: Your Honor, before I begin and kind
6 of address the parties' arguments in the papers, I just
7 wanted to say that it's often the case on JMOL we're here
8 on, maybe I shouldn't call it that but I will, somewhat
9 mundane affairs where simply sometimes we want to preserve
10 the appellate record. I think today we are not.

11 I think before you today on these 112 issues
12 you have a very important issue for the development of the
13 life saving medicines in this country, and that really in a
14 nutshell is whatever the contribution a patentee makes to
15 the field or science at issue, whatever the contribution the
16 patentee made in this case, when claims are so broad that
17 they fail to or they really contract from innovation by
18 charging sort of rent for which they fail actually to teach.
19 And I think in this case the '597 patent falls on the wrong
20 side of that line. It doesn't disclose or teach the entire
21 class of 2'-methyl up nucleosides to treat HCV.

22 Instead, at best, what it does is it encourages
23 accepting what the characteristics of the invention
24 described. It encourages others in the field to go find
25 those 2' methyl up compounds that actually treat HCV with

1 their own experimentation and their own effort. And that,
2 in our view, renders the patent invalid both under
3 enablement and written description.

4 THE COURT: Where we are with the record, and
5 I'm sure we'll talk about that a lot but we are on JMOL.

6 MR. SINGER: Yes.

7 THE COURT: I think that probably means that
8 there is evidence that the 2'-methyl up discovery was
9 important, perhaps key, perhaps crucial.

10 If we accept that there is evidence to support
11 that, is there some claim that Gilead would allow, could
12 have been legitimately claimed as an invention?

13 MR. SINGER: Sure. Surely, of course.

14 THE COURT: Give me an idea of what a claim like
15 that would look like that would be physically enabled and
16 have written description.

17 MR. SINGER: Based on the disclosure that is in
18 the claims, the claim to the 2'-methyl up class with hydroxy
19 down would have been absolutely supported by the patent
20 specification and enabled by the patent specification.

21 And that is the data that was in there, the
22 exemplary compounds that were in there. And that was, in
23 fact, the discovery described by Dr. Sommadossi. I think
24 that is fair to say would be perfectly fine. It would have,
25 if you will, cabined or confined the invention to that,

1 number one, that which was actually invented and, number
2 two, not run afoul of the case law that I think both parties
3 are thinking about in the enablement and description
4 context.

5 THE COURT: Would not have been too abstract,
6 for instance, to be patented in your view?

7 MR. SINGER: No. I mean, Your Honor, it has, it
8 has exemplary compounds, 2'-methyl up, OH down. Those are
9 the compounds that are actually described in the
10 specification as examples, and it wouldn't have been
11 abstract in any way in the sense of having actually made
12 those compounds and exemplified them in the patent
13 specification to treat, to treat the disease at issue.

14 It's when going beyond that, to then say that
15 the discovery of that, if you will, group, however large or
16 small it might be, to then go from there, that teaching to
17 then say I have and claim any 2'-methyl up compound
18 regardless of its substituent at the 2' down or, frankly, at
19 the other positions in the molecule as well that the patent
20 runs afoul of the enablement and written description laws.

21 THE COURT: And what we have in the '597
22 specification in Gilead's view is adequate to support both
23 written description and enablement, that more limited claim
24 that you just described?

25 MR. SINGER: Right. I think we said that in our

1 papers, Your Honor.

2 Your Honor is familiar with the patent policy
3 behind them. I'm going to start with enablement, Your
4 Honor. Most of my discussion beyond that now will go to
5 written description but they do have a lot of overlap.

6 You're familiar with the patent policy. You
7 asked us to look at the Enzo case and provide you with
8 briefing, and we did.

9 These are the policies here that are at issue,
10 and it really is as I described, when does the patentee go
11 too far -- having discovered something and then go too far
12 to claim that which they don't teach or disclose?

13 I wanted to point out really what I think is
14 what you and I just discussed, and this goes to the
15 exemplary compounds that are in the patent specification.
16 And what we have described in our briefing.

17 And if you look at -- this is I don't think
18 controverted at trial at all. The sugar, the nucleoside is
19 the sugar on the left side in the bottom. This is slide 3.
20 And in the right corner, of course, is the base. And you
21 see that, of course, the sugar in the working examples and
22 as described by Dr. Sommadossi's discovery is identical.

23 So we have, and I think Idenix pointed to one or
24 two examples, but they all have this same sugar. And it's
25 got the methyl up at the 2', and the OH down at the 2', the

1 OH down at the 3', and the base is different.

2 You have got the four different natural bases in
3 this depiction but the sugar is identical, and that's where
4 the rubber hits the road. Because when it came time for
5 claim construction, Idenix urged, and the Court adopted,
6 this claim construction that then unbounded the sugar,
7 really that is what happened. We have any purine or
8 pyrimidine base, so anything on the right, and then this
9 2'-methyl ribofuranosyl nucleoside became any five member
10 sugar ring, as the Court knows.

11 So this is the Court's construction. So that
12 extension to this broader, sort of this broader sugar
13 structure or any sugar, almost any sugar with the 2'-methyl
14 up, that is where it is brought in.

15 So I want to pause on this, Your Honor, because
16 I think it's common to the cases the party talk about,
17 including the *Enzo* case and the *Wyeth* case. And it is we
18 think an important aspect of these claims, and it is how we
19 presented the argument at trial.

20 So the claim scope, it kind of has this
21 structure, the claim itself has a structure where it
22 identifies a structure and the structure is really any
23 nucleoside with the attributes listed on the slide,
24 2'-methyl up, and according to the Court's claim
25 construction, any non-hydrogen substituents at 2' down, 3'

1 down, and any substituents at 3' up, 4' and 5', and any
2 purine and pyrimidine base.

3 This is not to say -- they say a person of skill
4 wouldn't do anything. And we agree with that, but the claim
5 construction covers anything that anybody comes up with that
6 meets that definition.

7 And then it is circumscribed. So this group,
8 this broad group of structures is then circumscribed by the
9 function of being effective.

10 The critical aspect that Idenix has focused on,
11 the expert has focused on and said, here is the key. This
12 is Dr. Meier who was testifying at trial.

13 These were the key teachings according to him.
14 The key invention or the key structures are 2' methyl up,
15 and it should be an inhibitor of the NS5B polymerase.
16 That's the enzyme involved here in the replication of the
17 virus in order to try to block that replication.

18 Well, you know, that inhibition of the NS5B
19 polymerase, that's not a claimed feature. I don't think the
20 Court really has to resolve that to resolve these motions in
21 Gilead's favor. But that is what is said is the key, what a
22 person, a skilled person would take from that structure I
23 just described to you as to how the claim works.

24 And so if you go to the patent, and I think this
25 is quite clear, the patent tells the person of skill in the

1 art, you know, in order to find those compounds that have
2 the key structure of the 2' methyl up and that would inhibit
3 the polymerase and therefore be effective to make and screen
4 the compounds. That's what you do. You make them and then
5 you screen them, and the experts for Idenix, they agree.
6 That's what they said.

7 Here's Dr. DeFrancesco talking about this very
8 paragraph. Just for record, Your Honor, this is column 13,
9 lines 42 to 49 of the '597 patent. This quote is actually
10 in there twice, so if you see it at a different site, it's
11 in there twice as well. It says the Beta-D and Beta-L
12 nucleosides of this invention may inhibit HCV polymerase.
13 That's that enzyme. And nucleosides can be screened for
14 their ability to inhibit HCV polymerase activity in vitro
15 according to the screening methods. And as I said, that's
16 what the experts said, Idenix's experts. This is not --
17 we're looking at, you know, we have to, of course, for JMOL,
18 look at the evidence most favorably to Idenix. We have to
19 draw the reasonable inferences one may draw that the jury can
20 draw, and here's Dr. DeFrancesco. If you remember, Your
21 Honor, he was the virologist that testified for Idenix. And
22 he said, we used the screens because that is the way you
23 actually cut down the number of compounds, by removing all
24 inactive ones to a few interesting ones.

25 And this is Dr. Meier, both actually referring

1 to this very paragraph. This was highlighted by Idenix in
2 their examination and this is them talking about this very
3 paragraph in the patent. Dr. Meier, this is from column 13,
4 the section that I copied here. Nucleosides can be screened
5 for their ability to inhibit HCV polymerase activity, et
6 cetera. Make them and screen them. That's how you find the
7 ones that are active or effective against --

8 THE COURT: You're saying make and screen. It
9 seems like these quotes are talking about screening. What
10 is the record evidence on whether a person of skill in the
11 art at the appropriate time would also have to take time to
12 make the compounds?

13 MR. SINGER: I think that Dr. Meier talked about
14 the, Dr. DeFrancesco didn't talk about making. Dr. Meier
15 talked about having to make them. And the question he was
16 talking about, the methodologies in the patent, talking
17 about the manufacturing methods that were in the patent at
18 this very location in the transcript. I can get you a cite
19 in a moment where he talks about, you have to make them to
20 screen them. They weren't simply commercially available.
21 You have to make them and screen them. That's the point.

22 THE COURT: And does that contribute to whether
23 or not, to an assessment of how much experimentation is
24 required?

25 MR. SINGER: I think it does. Just the simple

1 fact that one has to make them certainly does and the fact
2 that one has to screen them. And it isn't the issue, Your
3 Honor, I think Idenix has argued, you know, that the
4 nucleoside chemistry itself was a known field. People had
5 been making nucleosides for quite a long time, and Dr.
6 Secrist surely acceded to that in his cross-examination.
7 But one still has to go about making these, you still have
8 to do that. You have to do that process to make them.

9 And in our briefing, Your Honor, the time
10 required, it was uncontested at trial, that Dr. Secrist said
11 the person of skill could make two to four a month, a single
12 person of skill. And if you remember, if the Court doesn't
13 want to rely on Dr. Secrist on the assumption that the jury
14 rejected anything he said, I don't think it would be a fair
15 and reasonable inference. Idenix's witness said that she
16 thought screening, which, of course, requires making 37
17 compounds a lot, in a month was a lot. That I think was Dr.
18 Tausek was her name. We cited that in our papers as well.

19 So there is this rate limiting feature in the
20 patent of making and then screening. And while Dr.
21 DeFrancesco did testify that one could in theory screen
22 thousands per month in the abstract, what the testimony was,
23 you have to make them and acquire them. And as I said, Dr.
24 Tausek said 37 a month was a lot. Dr. Secrist said the
25 average person of skill could make two to four of these

1 nucleosides per month.

2 And, you know, at times reading, you know,
3 Idenix's papers, I don't mean to make light of this, but it
4 almost sounds like granting JMOL is impossible because
5 enablement is a factual issue and all the facts were
6 resolved again Gilead, and so therefore it's kind of a
7 circular argument. There are facts involved. The jury
8 solved them against you, and therefore you lose, and
9 therefore JMOL is impossible. But, you know, we've cited,
10 and surely the Court has plenty of experience with JMOL,
11 that you don't just ignore the evidence that doesn't support
12 the verdict, particularly where it's uncontradicted and
13 unimpeached, as I believe the testimony I just described
14 from both Dr. Secrist and Dr. Tausek was.

15 THE COURT: Enablement, I think is a question of
16 law at the end of the day. Correct?

17 MR. SINGER: That's right. That's correct.

18 THE COURT: Correct me if I'm wrong. Did you
19 ever move for summary judgment on enablement?

20 MR. SINGER: We did not move for summary
21 judgment on enablement.

22 THE COURT: I've never been asked to determine
23 whether there's even a genuine dispute of material fact.

24 MR. SINGER: That's correct, Your Honor. We
25 moved on written description, I believe, twice, if memory

1 serves me. But I think it's important, Your Honor, to look
2 at, here are sort of the key kind of, some of the key points
3 that there's just no dispute about one way or the other at
4 trial, and these are the background facts that are critical
5 to the enablement analysis. This is Dr. Meier. Modified
6 nucleoside activity for HCV in its infancy. That's their
7 own expert. Dr. Gosselin. If you recall, he appeared on
8 video, Your Honor, on the Idenix side. You don't know
9 whether or not a nucleotide will have activity against HCV
10 until you make it and test it, and there's that making and
11 testing again.

12 And we pointed it out in the papers, Your Honor,
13 but it's important to pause on it. This is a document that
14 was entered into evidence with Dr. Seeger and it records
15 Idenix's activities with the 2' methyl up OH construct. Not
16 anything else done, but just the 2' methyl up OH construct.
17 Even that I already said would have been enabled, even that
18 more often than not results in inactive compounds. When you
19 make those, and Dr. Seeger is talking about this log that
20 Idenix made of hundreds of compounds, and this.

21 These are examples of compounds that were not
22 active. All of them in this Idenix log; right? Correct.
23 Just what do they have in common? They have in common that
24 they are 2' methyl up OH down compounds. That's not to say
25 every compound in this log was inactive. That's not right.

1 It's just that a lot of them weren't, so we have a very
2 unpredictable field in which people take the time to make
3 compounds and they can't predict the activity. They have to
4 test them. And then that's how they find it. That doesn't
5 satisfy the laws of enablement.

6 And you had a vivid example, uncontested,
7 with -- now we're going to move away from the OH down, which
8 was the thrust of the disclosure. This is Dr. Otto talking
9 about, okay. Let's talk about fluorine down. What happens
10 when you have fluorine down to the 2'? And Mr. McCann asked
11 Dr. Otto about 6130. And if Your Honor will remember, that
12 was the key compound that Pharmasset first invented in 2003.
13 And I've got the little picture at the bottom there, Your
14 Honor, right there. And you see the fluoro down at 2' with
15 the methyl up. And it says, 61 is sugar ring. Can you
16 describe to the jury, again, what is at the 2' position?
17 The 2' position has 2' methyl up and fluorine down. Talks
18 about the base being cytosine and says that it's active.
19 And then Dr. Otto talked about switching the base, even the
20 base. Just switching the base from cytosine to adenosine,
21 one of the naturally occurring bases in all of our bodies.
22 Did Pharmasset ever try keeping that exact same sugar ring
23 and switching the base to the adenosine base? Yes. And
24 what happened? The compound was inactive. So what
25 difference does that make there? And, again, it is not to

1 say one compound carries the day. The evidence at trial was
2 uniform, that predicting the activity of these compounds is
3 not possible until you make them and test them.

4 We think under *Wyeth*, under all the case law
5 we've cited, this is basically an iterative and
6 trial-and-error process to practice the claimed invention
7 even with the help of the specification that renders it
8 invalid.

9 THE COURT: Is it Gilead's position that the
10 full scope of the claims as the Court has construed it could
11 not possibly be enabled or is there some conceptual
12 enablement test that could have, some other specification
13 that could have enabled it?

14 MR. SINGER: Sure, Your Honor. I can imagine a
15 world -- we're lawyers, so we can always imagine other
16 hypothetical specifications that had, you know, many more
17 examples with many more different, for example, substituents
18 at 2' down and 3' down that showed the world, hey, 2' up
19 methyl compounds with all of these other things down have
20 activity or not have activity.

21 THE COURT: Even some of them would have
22 presumably said, no activity. You know, we tested this.
23 This one had no activity, but some of these other 2' downs
24 did have activity?

25 MR. SINGER: Sure. I think the case law, I

1 think it was the *UroPep* case kind of talked about the mere
2 listing of inoperative embodiments, you're kind of -- it's
3 sort of an unfair thing, right. You have to list
4 everything, and if you listed a few that were inoperative,
5 would that render your claim not enabled? And the answer is
6 no. But I surely -- surely, we can imagine a specification
7 that had more than one sugar ring to disclose to the world
8 attached to the four natural bases and a couple modified
9 bases. We can imagine other substituents down. Of course,
10 we can, could have imagined fluoro down, which, of course,
11 this patent omits from its description of possible, of
12 substituents. So, you know, that's not the case we have
13 here, Your Honor, but absolutely. We can imagine something
14 that would be the standard.

15 And, you know, we've cited a variety of cases,
16 and I'm struck, Your Honor, I think we're all struck by how
17 similar the *Wyeth* case is, and I put the claim side by side
18 with *Wyeth* just so we could see. It has this exact same
19 claim structure. You've got the method for treating.
20 You've got a structure. In the case of the *Wyeth* case, it
21 was the Rapamycin structure which has having this
22 macrocyclic ring. I will describe it in a moment with a
23 substitution at the C37 position. And here we have the 2'
24 methyl nucleoside, the 2' methyl position and substitutions
25 at the other points.

1 Again, the constructions define the classes in
2 the same way. There's the *Wyeth*. The invention is a new
3 method of use of a known compound, sirolimus and any other
4 compounds that meet the constructions structural and
5 functionality requirements. You've got the new use of what
6 Dr. Sommadossi described as the known compound and then
7 extended to anything that was unknown that had that
8 structure as well, and then circumscribed by the
9 effectiveness in the claims.

10 And, again, *Wyeth*, very limited knowledge of the
11 use of these compounds for the particular disease, the
12 restenosis in the arteries. And remember in that case, Your
13 Honor, Rapamycin was known since the seventies. That was
14 not an unknown compound. In fact, Idenix cited, provided
15 the Court with a rapamycin patent at issue in the case,
16 and if you read the patent, you'll see it's a well-known
17 compound that has been used for a variety of things for many
18 decades before the *Wyeth* case.

19 The same thing here. While some of these
20 compounds, these nucleosides were known, and as Dr. Meier
21 described, that people had been doing nucleoside chemistry
22 for a long time. The field of actual use here was basically
23 unknown in its infancy.

24 Unpredictability, the same thing. You've got to
25 test it, you've got to make it and test it to find the

1 activity.

2 And this I've already described, the use of a
3 known compound extended to a class. And, again, the
4 structure at issue impacted potentially very large numbers
5 of compounds described by the effectiveness limitation. And
6 whether it's billions or simply a lot or millions, at the
7 end of the day, what you have is an iterative
8 trial-and-error process to find the compounds by making and
9 then testing it.

10 All right. And it's ironic to even use the
11 exact same language. The expert said it's significantly
12 smaller than *Wyeth* because of the particular molecular
13 weights that we required to make it permeable, and Dr. Meier
14 said the same thing. It would be significantly smaller
15 because it would have to inhibit the NS5B polymerase. That
16 doesn't matter because at the end of the day, it's the
17 person of skill who has to find them.

18 And this I want to pause at. The data available
19 in the patents is remarkably similar. And in *Wyeth*, they
20 had in vitro test data about one particular compound. And
21 then if the Court recalls, they assume that there are four
22 other compounds that shared structural similarities that had
23 that same activities. Five, five in total.

24 And here it is the same thing. We have four
25 compounds that are said to be active that share a common

1 structural feature of the 2'-methyl up and are said to have
2 activity, so the exact same number of compounds. And it is
3 time consuming to do this.

4 And this is Dr. Taucek's testimony I referenced
5 where she said the 37 compounds a month was a lot.

6 So that is the *Wyeth* case. And I think it well
7 establishes facts looked at in light of, in favor of Idenix.

8 I want to respond a little to Idenix's
9 arguments. And I'm sure I'll hear more, but just what they
10 said in the papers. I don't know what is going to be said
11 here today.

12 Idenix responds to this and says, well, there is
13 guidance in the patent specification that it is, it does
14 tell you what to do at these other positions. And this is
15 from their brief.

16 They say, Dr. Secrist -- excuse me. The
17 evidence showed using the '597 patent disclosure combined
18 with the knowledge in the art would allow skilled artisans
19 to readily visualize the other compounds expected to have
20 antiviral activity.

21 They talk about -- this is page -- I don't have
22 the page number. I apologize, Your Honor. Dr. Meier talks
23 about that key testimony that I highlighted. The key
24 structure being the 2'-methyl up and NS5B activity.

25 And the brief goes on and says, such compounds

1 include 2'-methyl prime ribonucleosides having substituents
2 at the 2' down position that would mimic hydroxy in some
3 way, shape, or form. Factors such as steric hindrance and
4 electronegativity of compounds would inform skilled artisans
5 of modifications at the 2' position that are likely to work.

6 This is not Dr. Meier's testimony. If the Court
7 will recall, on summary judgment of written description,
8 Idenix said he would testify to this at trial. And he did
9 not.

10 He did not offer any testimony about mimicry or
11 steric hindrance. What they're pointing to is the videotape
12 deposition testimony of Dr. Storer talking about what he did
13 at Idenix after the patent filing. And that simply is not
14 enough to overcome or -- that is not substantial evidence.
15 That is not enough to overcome or support denying JMOL.

16 THE COURT: Because of the timing with which Dr.
17 Storer did the work?

18 MR. SINGER: Because of the timing. It is after
19 the patent. It is also not from the perspective of a person
20 of ordinary skill in the art.

21 And, most importantly, you know, perhaps, it's
22 not in the patent specification. If this is the novel
23 aspects of one of the novel aspects of the invention, it has
24 to be in there. And I apologize we don't have a cite there
25 from *Enzo I* which is just a cite.

1 But it is the specification, not the knowledge
2 of one skilled in the art that must supply the novel aspects
3 of an invention in order to constitute adequate enablement.

4 If the novel aspect is the activity of methyl up
5 with anything at these other positions, if the mimicry and
6 steric hindrance is that novelty, the other aspect of the
7 invention besides being known, OH down, that has got to be
8 in the patent specification. And this testimony does not
9 put it in.

10 And, critically, it is not from an expert
11 offering that this is what a person of ordinary skill in the
12 art would conclude. This is we're talking about what Idenix
13 did internally after the patent.

14 So I don't need to go through this again. I
15 provided to Your Honor just a simple chart of the
16 similarities to *Wyeth*.

17 I did want to pause, Your Honor, assuming I
18 don't take too much time, and also talk a little bit about
19 *Enzo*. And, again, I look at that case, and it's got the
20 same kind of structural component and then a functional
21 component. And, again, the structure and the function put
22 together left the person of skill having no choice to make a
23 variety of things to see if they would properly hybridize
24 and be able to be detected in an art with the knowledge with
25 limited examples. A large class you had to winnow down to

1 find the things that work, that is not enablement.

2 And then also on *Liebel-Flarsheim*. That is the
3 case Your Honor will remember we were talking about with
4 respect to the impact of the failure of Idenix to be able to
5 make the 2'-methyl fluoro construct themselves.

6 And this is again right back to the policy issue
7 I started with. It's important to remember the claims as
8 filed didn't allow for the 2'-methyl fluoro down, and they
9 were amended to kind of bring that within the full scope of
10 the claims.

11 As we have already heard, and the Court knows
12 very well, the 2' prime fluoro is not listed in the patent
13 specification, and Idenix failed to make the accused product
14 when they tried and now essentially they want credit for
15 Dr. Griffon unknowingly making it in 2003.

16 Okay. Let's say that he unknowingly made it in
17 2003 and the jury believed that. That doesn't change the
18 fact that no one at Idenix actually identified a working
19 synthesis until 2005, after multiple years of failure of
20 either by their experts.

21 So this is right on *Liebel-Flarsheim* where the
22 claims are expanded as they are here. Their full scope
23 isn't enabled when the patentee itself fails to be able to
24 make the accused product and the accused structures that
25 fall under the claims.

1 This was right back to the teachings or the lack
2 of teachings that I described here.

3 What other response do they have? They say,
4 well, look, Jeremy Clark himself was guided by the '597
5 patent. We talk about going to Dr. Otto's office. Somehow
6 that proves that the patent is enabled because Mr. Clark, he
7 was able to use the '597 patent to do this work.

8 There are inferences, and there are reasonable
9 inferences, Your Honor. And there is no doubt Mr. Clark did
10 go into Mr. Or Dr. Otto's office with the patent. And the
11 testimony at trial was they were trying to see whether or
12 not they were infringing or not.

13 Here is what he said. This was presented to the
14 jury about you can't rely on some portion of Mr. Clark's
15 testimony and ignores others.

16 This is what he said about where he got the idea
17 from:

18 He was asked: Where did you get the idea of
19 using 2'-methyl up and 2'-methyl down?

20 He said: Probably from reading the literature.

21 You go back to the old literature. This was the
22 Merck material that were at trial.

23 The 2'-methylcytidine compounds were made in the
24 late 60s or reported at least in the late 60s.

25 Then they say, well, he did it in 15 minutes.

1 If the Court looks at the testimony that is cited there,
2 Your Honor, he said the reaction took 15 minutes. So he
3 actually, you know, put the chemicals together. It took
4 15 minutes for a chemical reaction, as I suppose chemical
5 reactions I suppose sometimes do.

6 What he really said was, let me tell you about
7 the synthesis with the sugar. This is page 976, line 22:

8 It was the spawn of the devil. This took me
9 many, many times of going back and doing the same steps over
10 and over.

11 Then when asked where he got a particular part
12 of the reaction: Do you recall how you arrived at the
13 methyllithium reaction, how you came to use the
14 methyllithium, he didn't say he got it from Idenix. He said
15 he got it from a work by Matsuda, a Japanese scientist.

16 That does not answer the enablement question.

17 THE COURT: You say that you can't take part of
18 Mr. Clark and not all of it. Why wasn't the jury free to
19 say we believe him on some things and we don't believe him
20 on others?

21 MR. SINGER: They are, but I would just -- the
22 law requires the inferences be reasonable. And what Mr.
23 Clark said -- so the inference from the testimony, Your
24 Honor, has to be reasonable, it can't just be I'm going to
25 take one part of Mr. Clark's testimony and just ignore and

1 ask for the inference, because Mr. Clark did not directly
2 say -- he didn't, he didn't go to, he didn't offer any
3 testimony that I used Idenix's patent to guide me. This is
4 an inference that Idenix argued to the jury.

5 So I put up what he actually said and what he
6 actually did and I ask Your Honor, I don't believe that that
7 is a reasonable inference to conclude that the '597 patent
8 was the solution to its properties.

9 And, finally, Your Honor, just on the disclosure
10 point. The patentee's failure, at the end of the day, not
11 the infringer's success, is what really matters. And the
12 disclosure in the '597 patent by Dr. Meier's own words was
13 the known routine methods of making nucleoside. It wasn't
14 anything -- he do not describe it as putting anything new in
15 there. So persons of skill would turn to these methods and
16 adapt them as they might need to to make these 2'-methyl up
17 and whatever they were going to put down.

18 Okay. UroPep came up, Your Honor. I would
19 submit that is a very different case. I believe Idenix is
20 citing it for the proposition both relevant to enablement
21 and written description. Either way, the field was
22 described by the Court as a mature field in the case. And
23 there were hundreds of these known inhibitors of selected
24 inhibitors of the particular enzyme in the case at the time
25 of the invention. So it was a new use of these hundreds

1 of known inhibitors, and literally, I think the Court said
2 thousands, tens of thousands have been developed since the
3 time of the invention. So this was a very mature field
4 right there.

5 Dr. Bell testified the field was mature. And
6 that a skilled artisan would not necessarily need to conduct
7 any screening but could use their own PDE5 inhibitor, if
8 they've got one already. And that is because the field was
9 mature.

10 Okay. Now, Your Honor, unless you have any
11 questions, I'm going to turn to written description.

12 THE COURT: I do have some more on enablement.

13 *Storer*, the Federal Circuit decision, that was
14 an enablement decision at least in part, wasn't it?

15 MR. SINGER: Yes, it was.

16 THE COURT: And I guess I would like to better
17 understand your position as to its general relevance. But
18 correct me if I'm wrong, did they talk about Mr. Clark
19 there?

20 MR. SINGER: They did. They did, absolutely,
21 Your Honor. So I think I put it on a slide. I kind of went
22 over. I will go back to it. There it is.

23 I was talking about the failures of Dr. Griffon.

24 So in *Storer*, the Federal Circuit said: "To
25 establish enablement of a claim whereby new chemical

1 compounds are provided for use to treat disease, the
2 application must enable production of the synthesis of the
3 new compounds."

4 And the Federal Circuit ruled, as the Court
5 knows, that the disclosure in that patent did not so enable
6 the production of the new 2' fluoro down methyl compound in
7 that patent.

8 It talked about this evidence about Mr. Clark
9 and found it not persuasive as overcoming the failure of the
10 patent specification, which used, again, it's the same
11 thing. In that case, Your Honor, what was argued in support
12 of the enablement was that the method in the patent were
13 known methods of making nucleosides and then a person using
14 and could use those known nucleosides methods with their own
15 knowledge, therefore, come up with the claimed compound.

16 That is exactly the same thing here. We have
17 their expert saying that the methodologies were known and
18 routine that are in this patent specification and Idenix is
19 saying a person could use those compounds, those
20 methodologies, then come up with a new compound covered by
21 the invention.

22 So *Storer* is right on point in terms of both
23 just the general background of the law, Your Honor, but
24 also, I mean it, you know, I get it is a different case for
25 a jury and that was an interference, but it talks about the

1 exact same evidence that this jury heard and the Federal
2 Circuit's conclusions about that. Admittedly a different
3 standard but it is the same evidence.

4 THE COURT: There was back and forth about
5 closed lists. Is there a material dispute of fact on
6 whether or not the specification of the '597 talks about
7 closed lists?

8 MR. SINGER: So with respect to written
9 description, I didn't think there was a dispute that the
10 lists in the patent are closed.

11 THE COURT: Is that a concept that only goes to
12 written description?

13 MR. SINGER: That is more about written
14 description, Your Honor. It is relevant to enablement, Your
15 Honor, in the sense of what is actually listed there and, of
16 course, doesn't list fluoro, so the failure to enable the
17 fluoro moiety, but, of course, none of the things in the
18 list are exemplified in the patent besides -- as we made
19 besides the OH down, but it's more directly relevant to
20 written description.

21 THE COURT: Okay. If you would move on to
22 written description.

23 MR. SINGER: Okay. Let's see. All right. I'll
24 be briefer.

25 We did move for summary judgment here twice,

1 Your Honor. And I recognize that we are here a third time
2 arguing about written description in the case, and the jury
3 resolved the issue against us. So I don't want to belabor
4 this. But I think, again, the points here are, these are
5 not disputed points, or at least disputed evidence wasn't
6 presented about these points to the jury.

7 And I remind the Court once again that in the
8 face of summary judgment what was promised to the Court
9 that would be presented was Dr. Meier's testimony about this
10 aspect of the mimicry and steric hindrance and how that
11 would expand what was disclosed in the patent from the
12 exemplified OH down molecules and the simple lists of
13 possible substituents that are in fact closed to anything.
14 And that a person of skill would be able to do that, and the
15 testimony was not given.

16 And the deficiency, it is real simple. The
17 patent describes -- and I have here at slide 38 -- specific
18 substituents at the positions at issue.

19 It excludes certain substituents like 2'-fluoro
20 down.

21 And it specifically includes -- and I went
22 over this with Dr. Meier in his cross-examination -- it
23 specifically includes that which the Court excluded.

24 So when you look at the lists, it doesn't
25 include the accused product, the listed fluoro, and it

1 includes the very thing the Court -- the only thing, the
2 only thing that the Court said was excluded.

3 And, Dr. Meier, when he went through his
4 exemplary part of the patent, he relied on formula 11. And
5 if you read formula 11, it not only includes hydrogen, Your
6 Honor -- and let me just go right here. It not only
7 includes hydrogen, if you go to the preferred embodiment,
8 the very thing that he relied on, the preferred embodiment
9 is hydrogen.

10 So you have a patent specification, and the case
11 law says that if you are going to claim the genus, you have
12 got to direct the person of skill to that genus. You don't
13 just kind of get to pick and choose. The jury instructions
14 in this case was apt, cited in our brief, about blazemarks.
15 You don't just get to pick and choose substituents. That is
16 number one.

17 And then if you are going to claim something
18 that is broader than what you do, you better have
19 disclosures that shows that that is in fact what is claimed.

20 And you just don't get there from the list in
21 the specification.

22 And you asked me, was there any real material
23 dispute?

24 And here is Dr. Sommadossi:

25 If you look at the '597 patent, there is no

1 disclosure of a 2' up fluoro down methyl nucleoside?

2 Correct.

3 So I don't think there is any real dispute about
4 what is missing from the '597 patent.

5 Your Honor, I have spoken plenty about both of
6 these issues. I do want to reserve some time to respond to
7 Idenix's argument. Absent any further questions, I'll sit
8 down at this point.

9 THE COURT: Not at this time. I'll give you a
10 chance on rebuttal.

11 MR. SINGER: Thank you.

12 THE COURT: I'll hear now from Idenix.

13 Good morning.

14 MR. GRIFFITH: Good morning. I have handed a
15 set of slides up to the Court.

16 THE COURT: I have them.

17 (Slides passed forward.)

18 MR. GRIFFITH: Let me see if I can get our
19 slides up.

20 All right. May it please the Court, Idenix
21 respectfully submits that Gilead's JMOL motion should be
22 denied, and I'm going to just be addressing the enablement,
23 written description portions today. Ms. Parker will address
24 the damages portion that will come later.

25 Your Honor, as your questions earlier today

1 suggest, the posture of this case matters.

2 The jury has rendered a verdict in Idenix's
3 favor on the defenses for which Gilead seeks JMOL. It was a
4 full and rich trial record. And Gilead bears a heavy burden
5 to have the verdict overturned.

6 We had a nine day trial, 27 witnesses, four
7 technical experts, 179 exhibits.

8 Gilead bore the burden on these defenses by
9 clear and convincing evidence, so a high standard, and now
10 is not the time to reargue the evidence. And I believe that
11 is what is happening here.

12 This is the standard that Gilead has to show.
13 They have to show that the record is deficient on the
14 minimum quantum of evidence to sustain the verdict. The
15 only reasonable conclusion could be in its favor. All
16 logical inferences have to go Idenix's way and all conflicts
17 in the evidence have to be resolved in Idenix's favor. And
18 we can't disturb the credibility determinations of the jury
19 or substitute our own resolutions of conflicting evidence
20 for that of the jury.

21 Here, the record is not critically deficient of
22 the minimum quantum of evidence to sustain the verdict. And
23 in that regard, Judge Bryson's *UroPep* decision and Judge
24 Robinson's *Amgen* decision -- both denying JMOL after a full
25 jury trial -- are instructive on these intensity factual

1 issues with competing evidence. That we have in this
2 record. Judge Bryson, I would note, actually sat on the
3 *Wyeth* panel.

4 Let me start with enablement.

5 THE COURT: So let's talk about enablement. Is
6 it correct that I've never been asked to determine any
7 genuine issue of dispute on enablement.

8 MR. GRIFFITH: Yes. They did not file a motion
9 for summary judgment on enablement.

10 THE COURT: So if it turns out there are no
11 genuine disputes of material fact, what is the legal
12 standard that I would apply?

13 MR. GRIFFITH: It's essentially the same as the
14 summary judgment standard, but the record is different. We
15 have the trial record here, which is much more substantial
16 than one typically has in a summary judgment motion, but the
17 question is whether, as we discussed in the previous slide,
18 viewing all of the evidence in the light most favorable to
19 the plaintiffs, drawing all inferences in favor of the
20 plaintiffs, can the decision on that only go one way. Could
21 no reasonable jury reach the conclusion in favor of the
22 plaintiffs? But the procedural posture does matter because
23 the jury has heard this evidence and has gone in favor of
24 the plaintiffs. So we have a lot more information here than
25 one typically has on a summary judgment record.

1 THE COURT: So you have quite a lot of slides
2 here and you're going to have plenty of time to go through
3 them, that's fine, but just as a preview, give me an idea of
4 what you see as some of the genuine disputes of material
5 fact with respect to enablement.

6 MR. GRIFFITH: Yes. And the easiest way for me
7 to do that, Your Honor -- for some reason, I'm not getting a
8 reaction here -- would be to go to the *Wands* factors.

9 Well, this is fine. Could we go to the slide
10 that has the jury instruction? I'm not sure what's
11 happening with the clicker.

12 These are the fact issues, Your Honor, and this
13 is how the jury was instructed, and both parties jointly
14 submitted this jury instruction. This was our joint
15 proposal. And so the jury took these *Wands* factors. Both
16 sides submitted competing evidence on each and every one,
17 how much experimentation would be necessary to practice the
18 full scope of the claim, to synthesize 2' methyl, how
19 routine was such experimentation, and does the patent
20 disclose working examples, the amount of guidance, the
21 nature and predictability of the field, level of ordinary
22 skill, and the scope of the claimed invention.

23 I think maybe on level of ordinary skill they
24 may have agreed with us, that it was a very high level of
25 ordinary skill, but -- and, indeed, all the witnesses who

1 testified in here, Your Honor, generally speaking, for our
2 scientific witnesses, they have pretty impressive scientific
3 backgrounds.

4 So No. 6 goes Idenix's way and all of the others
5 had conflicting evidence on each and every one. And let me
6 try this again. There we go.

7 It wasn't just that there are these fact issues,
8 but the jury was also properly instructed to weigh the
9 fact issues. No one of the *Wands* factors is dispositive.
10 It's an intensely factual inquiry that was put to the jury
11 and which they resolved, making their credibility
12 determinations and weighing the evidence as they were
13 instructed to do.

14 Now, let's talk a little bit about guidance from
15 the patent, which I think was one where a lot of evidence
16 was submitted. Again, it was conflicting evidence.

17 Dr. Meier testified that the 2' methyl feature
18 is the key feature of the ribonucleoside in this claim, a
19 very different situation from *Wyeth* and *Enzo*, both which
20 were so heavily relied on by Gilead where the patents did
21 not identify the key technical feature, the key novel
22 feature of the claim. Those patents did not provide this
23 type of guidance. The patent informs on the mode of
24 operation, something absent from the *Enzo* patents. The
25 enzyme that the compound in *Wyeth* acted on was identified in

1 the patent, but in *Enzo*, that was the -- the mode of
2 operation was missing.

3 The jury was entitled to credit this evidence in
4 favor of Idenix. This was some of the portions of the
5 specification that described that the enzyme acts on the HCV
6 polymerase, the NS5B polymerase.

7 Now, they are rearguing the evidence and saying
8 it just says "may" and we don't know really what it was
9 acting on, skilled artisans wouldn't have understood that it
10 was directed to this, but our expert quite clearly testified
11 that they would understand, and that they precisely
12 understand that it was working on the HCV polymerase.

13 THE COURT: Now, in the portion and for record,
14 you were showing me the same excerpt that was showed by
15 Gilead. It immediately goes on to talk about the screening
16 and at least implicitly making. What's the record on
17 whether you need to make and screen these in order to
18 understand which ones are within the scope of the claim?

19 MR. GRIFFITH: Well, certainly, to practice the
20 invention, one has to make the compound. That's a given.
21 But this patent provides guidance to the skilled artisans,
22 that that will certainly work. We have Gilead's concession
23 today that it is enabling with respect to 2' methyl up, 2'
24 hydroxide down, and the base unspecified, notwithstanding
25 that the skilled artisan may have some strikeouts when they

1 try a base, that it doesn't work. But that's not undue
2 experimentation.

3 So we have the concession that that sort of
4 modification and that sort of testing and screening is
5 routine. They said the patent is not enabled because of the
6 fact that if one tries bases besides the four natural bases
7 that are exemplified in the illustrations in the patent and
8 also in the data, that doesn't de-enable, dis-enable the
9 claims.

10 But would one have to do some screening?
11 Certainly. Sometimes one would have to do screening. You
12 wouldn't have to do it if you use, for example, the working
13 examples in the specification, the skilled artisans might do
14 it in the last, but you wouldn't have to. I think there
15 were probably other substitutions, many substitutions that
16 one would not have to do screening on, which are described
17 in the specification.

18 Well, let me go to it. And this is just another
19 portion of the specification that says for the preferred
20 embodiments, you use the polymerase assay. So it was,
21 again, emphasizing the importance of HCV polymerase, the
22 NS5B polymerase.

23 Synthetic routes are described. We may come
24 back to that in a bit, but as well, the patent describes how
25 to make pharmaceutically acceptable salts and prodrugs at

1 various positions on the sugar. Columns 39 and 40, I think
2 maybe 38 to 40 actually get into that in some substantial
3 detail. There was -- it's described as being standard
4 procedures well-known in the art. The same admission
5 actually is made in the Clark patent itself, and Dr.
6 Schinazi testified that these sorts of, this sort of
7 chemistry on these type of molecules is easy. He called
8 prodrugs easy, so that's putting non-hydrogen substituents
9 at various portions of the molecule.

10 Now, the patent has described other options that
11 one has and these are non-limiting options. They call it a
12 closed list, but there's no requirement that a patent list
13 all of the species that can be used with the invention. And
14 in that regard, I saw on the slides that this was described
15 as specific exclusion. And I think some of the briefs of
16 Gilead say that our witnesses testified that, for example,
17 most notably fluorine at 2' down was specifically excluded.
18 But it's not specifically excluded. It's not -- it was
19 omitted as a specific example of an option at 2' down, but
20 there's no statements in this patent or anywhere to the
21 effect of, stay away from fluorine at 2' down.

22 THE COURT: It's undisputed, however, that the
23 '597 patent nowhere expressly disclosed fluorine as a 2'
24 down position; correct?

25 MR. GRIFFITH: As a specific example, that's

1 correct, Your Honor.

2 THE COURT: Is it also undisputed that fluorine
3 is a halogen?

4 MR. GRIFFITH: It is a halogen.

5 THE COURT: And is it also undisputed that other
6 halogens are expressly disclosed as candidates for the 2'
7 down position?

8 MR. GRIFFITH: Yes, they are.

9 THE COURT: And it's also undisputed that you
10 need more than 2' methyl up to cure HCV. Correct?

11 MR. GRIFFITH: You have to have the whole
12 ribonucleoside, but the 2' methyl feature is, as witness
13 after witness testified, the key feature to this invention.
14 It has to be a ribonucleoside. So that's what the, the
15 importance of identifying the target, the NS5B polymerase,
16 was. It told the skilled artisan that you want to use a
17 ribonucleoside on this.

18 THE COURT: But not all 2' methyl up
19 ribonucleosides will be effective to treat HCV. That's
20 undisputed; correct?

21 MR. GRIFFITH: That's correct. It's possible
22 there may be a 2' methyl ribonucleoside that will be
23 inactive.

24 THE COURT: Is it undisputed that nucleoside
25 chemistry at the pertinent date was highly unpredictable?

1 MR. GRIFFITH: It is absolutely disputed.

2 THE COURT: Okay. Tell me where that's
3 disputed.

4 MR. GRIFFITH: Let me check just a second, Your
5 Honor. I will get the slide to work. 26. This is fine.
6 33. Then I will move back to 26.

7 Nucleosides had been used to treat viral
8 diseases before this invention came around. The chemistry
9 related to the science, exploded in the 1980s, as testified
10 to by Dr. Meier, and the principles were used for various
11 viral diseases. If I can go back to 26.

12 There were a lot of synthesis procedures,
13 synthetic routes and methods known at the time. This is
14 from Dr. Meier. And you could go to the literature and take
15 it and use it. There was a lot of information available.
16 He testified it was routine experimentation to make
17 nucleosides. There's even -- we heard some argument this
18 morning about the most you could do is make two or three a
19 month, I think was the argument, and that was Dr. Secrist's
20 testimony, and that was -- he was talking about what
21 chemists did in his laboratory, whether that was the most
22 they would be capable of doing in a month. What the precise
23 circumstances were, I don't know. It's inconceivable to me
24 that you couldn't attach different bases, do different -- by
25 the way, all of those they count as different molecules,

1 this is the way they get to billions of compounds. You
2 could attach to the bases. You could do a mono, di,
3 triphosphate. You could add, you could make salts. You
4 could make prodrugs.

5 Mr. Clark testified that his reaction for doing
6 2' methyl 2' fluoro was 15 minutes, that reaction. So could
7 more, could one synthesize many nucleosides and
8 ribonucleosides in a short period of time? Sure. And this
9 testimony, the routineness of it totally supports that.
10 More than that though, Your Honor, Your Honor may recall
11 that you didn't always have to synthesize the compound. So
12 when Dr. Sommadossi and Professor LaColla came up with the
13 invention, so they were doing research on the reductase
14 enzyme, and they found, or they found an article describing
15 the structure of the NS5B polymerase, that the structure was
16 very similar to the reductase enzyme. And Dr. Sommadossi
17 knew about, or started looking for nucleosides that would be
18 effective against that reductase enzyme, and he called Dr.
19 LaColla and said, do you have such an enzyme or do you have
20 such a ribonucleoside? He said, let me check.

21 And so he went and he looked at MD1 in his
22 library. So, and that was the first 2' methyl
23 ribonucleoside that was used for purposes of attacking the
24 HCV.

25 Now, in addition, Merck had an extensive

1 library. Dr. Cook, Mr. Cook testified about that. Dr.
2 Storer testified about a substantial library that was
3 present at Pharmasset nucleosides. There was Professor
4 LaColla, as I mentioned. And Dr. Secrist also testified
5 that it was common, I believe, for large pharmaceutical
6 companies to have libraries of nucleosides. That's at
7 transcript page 1728, and Cook's is at transcript page 1336,
8 and Dr. Storer's is at page 657.

9 THE COURT: So taking all of that evidence and
10 any other in a light most favorable to you, roughly, how
11 many compounds did that add up to that a POSA would not have
12 had to make and synthesize at the pertinent time but could
13 have pulled off a shelf, at least figuratively?

14 MR. GRIFFITH: I don't have a specific number to
15 give you, but just taking the short period of time that it
16 took Mr. Clark to synthesize to 2' methyl 2' fluoro, and he
17 said 15 minutes, but, you know, let's assume for the sake of
18 discussion, a couple of hours. You know, one can do many in
19 a day and many more in a month.

20 THE COURT: All right. I think I'm asking a
21 slightly different question. I understand the argument that
22 maybe it's routine and easy to make more, but I think you're
23 also arguing, I think you brought this point up, keep in
24 mind, you don't have to make them all. You don't always
25 have to synthesize them; right?

1 MR. GRIFFITH: Right.

2 THE COURT: So taking all of that evidence in a
3 light most favorable to you, all of those libraries you just
4 mentioned and any others for which there's a record basis,
5 does that add up to a hundred, a thousand, a hundred
6 thousand? What could the jury have reasonably concluded on
7 that?

8 MR. GRIFFITH: I think they could have very
9 reasonably concluded that it was a substantial number for
10 purposes of testing and looking at activity. And then you
11 have that coupled with the testimony about the ease with
12 which assays can be done and with the high throughput for
13 that. 10,000 a month, maybe more. It's thousands per
14 month. They could be done.

15 So we have a situation where on this evidence
16 the jury could reasonably have concluded that making
17 compounds and testing them was not undue burden in this
18 art, which, by the way, was an art that was accustomed to
19 screening.

20 So like in the *Wands* case, where screening
21 was -- it was a monoclonal antibody situation, so screening
22 was very common there, and that was pointed out by the Court
23 as being a factor in terms of the nature of the art and the
24 nature of the invention. Screening was sort of an expected
25 activity to be engaged in. So this is not something,

1 screening is not something, making and screening compounds
2 is not something that skilled artisans here viewed as
3 untoward work, undue burden.

4 Now, they argued against that. They put in
5 evidence arguing that it would have been a lot of work and
6 that the skilled artisan would not have expected to have to
7 confront this activity, but that's, that was a fact issue
8 for the jury to decide. That is not something to be undone
9 now after they weighed the evidence and weighed their
10 credibility determinations.

11 And further on guidance, Your Honor, there was
12 argument this morning -- let me go back. There are a couple
13 of points I want to make sure I hit on here.

14 So Gilead's counsel pointed to some testimony
15 from Mr. Clark about how, that he made regarding how he
16 arrived at this. We had testimony from Dr. Otto, who says
17 that he met with Clark right around the time he was coming
18 up with the idea to use 2' methyl 2' fluoro and we asked
19 him, did he present you with any literature that guided him
20 to 6130, this first 2' methyl 2' fluoro compound. The
21 answer is, well, he didn't say what necessarily guided him
22 to that idea. But he did bring with him to my office copies
23 or portions of copies of a Merck application and a Novirio
24 application.

25 So the jury could reasonably infer from this

1 that Novirio application, the Idenix patent application, and
2 this was the specification that is the '597 patent, is what
3 guided Mr. Clark to 2'-methyl, 2' fluoro, and aided him in
4 his synthesis, which he was able to do with ease during this
5 time frame with clearly having Idenix's patent application
6 in hand.

7 Now, the jury could have credited this
8 discussion. And Your Honor pointed out, I think Gilead's
9 counsel made a point of you have to take the good with the
10 bad with the testimony, but the jury doesn't have to do
11 that. It can credit some testimony from a witness and not
12 credit other testimony.

13 And so the fact that there is in some instances
14 perhaps conflicting testimony about what things happen and
15 how things unfolded, the jury's job was to sort that out and
16 we can't, we can't unravel that now.

17 Now, there is another important piece of
18 evidence on this point. And that is that in this time
19 frame, when the '597 patent published as a PCT application,
20 the folks at Pharmasset, scientists at Pharmasset got their
21 hands on it, read it, and they noted that it, it reported on
22 modified nucleoside analogs with potent inhibition of the
23 HCV NS5B polymerase.

24 So they knew what, they knew exactly what enzyme
25 it was going after. Again, some of their experts challenged

1 that, but they knew from reading this patent what the target
2 enzyme was.

3 Now, they also identified one of the classes
4 that are potent inhibitors. And one was 2' modifications,
5 methyl or O methyl. But the methyl class of compounds was
6 pointed out here, and it pointed to just 2'-C methylcytidine
7 as a representative of that class.

8 So they completely got the importance of
9 2'-methyl, and that it had the ability, that ribonucleoside
10 had the ability to be effective and active in other forms
11 besides 2'-methyl, 2'-OH.

12 THE COURT: What is in the patent that the jury
13 could have reasonably thought would have directed one of
14 skill in the art to the 2'-methyl up, 2'-fluoro down?

15 MR. GRIFFITH: I think, Your Honor, it's the
16 teaching that 2'-methyl ribonucleosides are effective for
17 treating HCV. So this patent taught the genus of those
18 compounds that were effective against HCV. And the skilled
19 artisan reading the patent understood that modifications
20 could be made, and so the skilled artisan could make
21 modifications at 2' down. And they could have credited even
22 Mr. Clark's testimony -- or, I'm sorry, Dr. Otto's testimony
23 as supporting that.

24 But the point is the patent doesn't have to
25 list every species. It doesn't have to lead you to some

1 particular species. The genus here, the class of compounds
2 has to be supported, and we don't have to call out every
3 possible species that might be used. And it doesn't have
4 to lead you to one particular one over another.

5 THE COURT: Okay. But is there anything that
6 would have led one of skill in the art to this embodiment,
7 the one that is now the accused one?

8 MR. GRIFFITH: Yes. I think the, I think the
9 data, for example, in the patent certainly did that. So
10 that was on the 2'-methyl, 2'-hydroxide. But I think that
11 that skilled artisan looking at that data would have been
12 and could have been led to try other 2'-methyl to other
13 substituents in the down position, one of which could have
14 been fluorine. So as I say, it doesn't specifically say go
15 do fluorine, but it doesn't have to do that. That is not
16 required for enablement. We don't have to enable the
17 infringing product, if you will.

18 THE COURT: Do you agree you have to enable the
19 full scope of your claim?

20 MR. GRIFFITH: I do.

21 THE COURT: So what does that mean here to
22 enable the full scope of your claim as construed?

23 MR. GRIFFITH: That means that the skilled
24 artisan has to be able to practice within the claim without
25 undue experimentation.

1 So you can't have -- so in, for example,
2 *Liebel-Flarsheim*, half of the claim was on not having a
3 pressurized jacket and the other half was on having a
4 pressurized jacket. They didn't enable the not having a
5 pressurized jacket half of the claim.

6 But, broadly speaking, it means that skilled
7 artisans have to be able to practice the invention within
8 the genus.

9 THE COURT: Do they have to be able to practice
10 without undue experimentation the full scope of the claims?

11 MR. GRIFFITH: They do, Your Honor. But just to
12 be clear, that doesn't mean that the project here is for the
13 skilled artisan to go out and make every compound covered by
14 the claim. So in most cases -- and that is explained, for
15 example, in the *UroPep* case, but it certainly is not unique
16 to that. In the *UroPep* case, Lilly seemed to be making the
17 argument that enablement requires that every PDE5 inhibitor,
18 a skilled artisan had to be able to make those in a short
19 period of time, go out and make the entire class of
20 compounds. So no one would do that.

21 So to me, Your Honor, the meaning of being able
22 to practice within -- enable for the full scope of the claim
23 is that a skilled artisan can take this invention, 2'-methyl
24 ribonucleosides, not specific to OH down, and can make
25 those, make such compounds without undue experimentation.

1 It doesn't mean that they can make them all simultaneously
2 this week but if they wanted, if they set out to try to make
3 a compound, they will be able to do that without undue
4 experimentation.

5 The *Wands* case, perhaps, is instructive here,
6 and as well as *UroPep*.

7 So in *Wands*, you had to screen for the monoclonal
8 antibodies. So the class, the class was unlimited. I think
9 they were specific to high affinity antibodies for an HBV
10 antigen. And there is a limitless class of compounds. But
11 the issue there and the issue here as Gilead has framed it was
12 whether it was a needle-in-the-haystack problem to go out and
13 make anything other than specific embodiments that had been
14 described in the patent or deposited with the government at
15 the time.

16 And what they found there was you had a, I think
17 in *Wands*, a 44 percent success rate. So you would go out
18 and make your hybridoma and it was a lot of work. You had
19 to get animals. You had to inject them and infect them and
20 fuse cells to make the, to screen the hybridomas. Was this
21 going to be a futile exercise for skilled artisans when they
22 did that or would they be able to come up with these
23 monoclonal antibodies in the patent, the high affinity ones?
24 And the answer was they could.

25 Specifically, in that case it was 44 percent of

1 the time. The numbers that were involved in that case, it
2 was 44 percent. So half the time, a little bit more than
3 half the time they would strike out. That doesn't mean
4 that the claim is not enabled. You could make various
5 embodiments within the scope of the claim. You set out to
6 do it and you will be able to do it. The patent gives you
7 the tools to be able to do that.

8 This patent does that. And coupled with the
9 tools that skilled artisans have in their toolbox at the
10 time, so assays, running screening assays was something that
11 skilled artisans have here. They were able to do that. The
12 synthetic routes were not unduly burdensome. This was a
13 well developed science at that point in time.

14 THE COURT: So I understand they don't, we don't
15 need any one person of skill in the art to have taken the
16 time to make every embodiment, every claimed embodiment.
17 That is part of your argument. I understand that.

18 MR. GRIFFITH: Right.

19 THE COURT: Does it have to be, however, that
20 should a skilled artisan have wanted to do that, that with
21 whatever they would know as one of skill in the art plus
22 the patent, that they could make all of those without undue
23 experimentation, all embodiments?

24 MR. GRIFFITH: I think I agree with that, Your
25 Honor, with the understanding you are not talking about --

1 in other words, could they go out and make any one of them I
2 think is what Your Honor is asking.

3 THE COURT: Well, that was going to be the next
4 question. If you want to answer that one.

5 MR. GRIFFITH: I don't think undue
6 experimentation means you can go out and make every compound
7 covered by a claim without that being a big job, a lot of
8 work, undue work, that sort of thing. I don't think that is
9 correct.

10 THE COURT: You don't think you have to have
11 enabled any one to be able to do that --

12 MR. GRIFFITH: Right.

13 THE COURT: -- in order to have that.

14 MR. GRIFFITH: That's correct.

15 THE COURT: But how about your question? Does
16 one of skill in the art, looking at the patent and knowing
17 whatever one of skill in the art knows, have to be able to
18 visualize the full scope of the embodiments that are claimed
19 and be able to say, without undue experimentation, hey, I
20 want to get this one. I can do that without undue
21 experimentation.

22 MR. GRIFFITH: I would say that is roughly the
23 case. I would not say there are never any exceptions to
24 that, Your Honor. You can have improvements on things and
25 so forth.

1 And so when Apple came out with the iPhone, ten
2 years later, can you come up with some version of it that
3 they wouldn't have been able to make back then? I don't
4 think that sort of thing would defeat the patent, I wouldn't
5 say.

6 So with that in mind, I think broadly speaking
7 what we're talking about is being able to practice the claim
8 across the claim and not -- so if, you know, the issue would
9 arise here that if there was only one species in a genus
10 that could be made without undue experimentation, that would
11 implicate the question that Your Honor is asking. But I
12 don't think that is even remotely close to being the case here.

13 That was the issue, Your Honor, in *Wyeth*. And
14 if I may go to that?

15 THE COURT: Sure.

16 MR. GRIFFITH: Well, first, Gilead's statement
17 of the holding in *Wyeth* is that "required screening of 'a
18 lot of compounds' ... to find the active species fails to
19 enable the full scope of the claims as a matter of law."

20 That is not the holding of *Wyeth*.

21 And in both *Wands* and *UroPep*, there was required
22 screening of a lot of compounds to practice the claim across
23 the full scope.

24 And so each of these cases has to be decided
25 on their own facts and circumstances in the context of the

1 level of skill in the art, the predictability of the art
2 or the unpredictability of the art, the level of what is
3 routine experimentation, what isn't at a given point in
4 time. About all of that, and we had much fact dispute
5 about each and every *Wands* factor, we had fact disputes in
6 this case.

7 But, in *Wyeth*, the problem was the patent --
8 there were a number of issues that the Court looked at
9 there. The patent was silent on how to modify compounds.
10 It didn't give any guidance whatsoever about, hey, you can
11 make this change, you can make that change. You can do
12 this.

13 We had substantial guidance on changes and
14 modifications that can be made to the 2'-methyl compound at
15 issue here.

16 We have issue of contemporaneous guidance that
17 the patent provided to scientists at Pharmasset. This
18 patent was absolutely crucial to them. They took this
19 2-methyl compound and ran with it.

20 There were assays here. Assays could be done on
21 thousands of compounds routinely. And in *Wyeth*, for one
22 single compound, it took weeks. That was just for one.

23 The rapamycin art was unpredictable and poorly
24 understood.

25 We had evidence here of synthesis of nucleosides

1 was certainly predictable and well understood, and use of
2 nucleosides to treat viral diseases was known.

3 Now, Gilead's counsel had testimony from
4 Mr. Meier that he put up saying use of, the use of
5 nucleosides to treat HCV was in its infancy in 2000.

6 But it wasn't that the skilled artisan was
7 without information about using nucleosides for viral
8 diseases and that sort of thing. And each of the scientists
9 who testified or many of the scientists who testified in
10 this case indeed had experience on just that, on using them
11 to treat HBV or HIV and even had patents in those areas
12 before this.

13 THE COURT: But is it undisputed that the use of
14 nucleosides to treat HCV was in its infancy at that
15 pertinent date?

16 MR. GRIFFITH: I believe that it was in an early
17 stage at this time. Then the 2'-methyl ribonucleoside class
18 gave predictability to that field, and that is what the
19 Pharmasset scientists latched on to.

20 THE COURT: And I can find Dr. Meier saying
21 that, that the 2'-methyl gave predictability?

22 MR. GRIFFITH: He testified to that being the
23 key feature of this compound.

24 THE COURT: But does he testify that, therefore,
25 all of the, whatever you put it, the other substituents,

1 whatever they are, it's predictable, whatever their activity
2 would be?

3 MR. GRIFFITH: He testified that it would be not
4 undue experimentation to make modifications at the other
5 positions following the guidance in the patent, and that you
6 would be able to do that and have an effective compound.
7 So, yes, in that sense.

8 And I guess I would point further, Your
9 Honor, to the Pharmasset evidence, for example, the grant
10 application saying the 2'-methyl class of compounds is a
11 potent inhibitor of HCV. That is a clear statement of they
12 believed it predicted effectiveness.

13 Again, as Gilead's counsel noted, you know,
14 could you find a base that wouldn't be active with the
15 compound? Yes, you could. That is possible. But basically
16 this class of compounds honed you in on that which was
17 effective for treating HCV. And, indeed, 11 out of the 12
18 ribonucleosides -- and there was testimony by I think
19 Dr. McHutchison to this effect. He noted the compounds that
20 had gone to market, or, I'm sorry, into clinical trial to
21 treat HCV, 11 of the 12 ribonucleosides were 2'-methyl
22 compounds. 11 of the 12. So this compound became the gold
23 standard for this area of research.

24 Skilled artisans here, as Dr. Secrist testified,
25 were used to working with large classes of compounds. So

1 this is not a foreign idea to have, you could have different
2 substituents at different positions. You could have salts
3 that you would use here, prodrugs that you would use here,
4 changes that could be made to this or that. He and both Dr.
5 Sofia also testified to, yes, we worked with large classes
6 of compounds.

7 THE COURT: Before you move on from that slide,
8 I want to talk a little bit more about the amount of time.
9 As you know here in *Wyeth*, they found that it would take
10 weeks to test even a single compound. What is in the record
11 here about how long it would take to test all of the
12 embodiments of the claim here?

13 MR. GRIFFITH: The record is that you could do,
14 you could test tens of thousands in a month.

15 THE COURT: And how many embodiments are there
16 within the scope of this claim?

17 MR. GRIFFITH: I don't have a number to put on
18 that. Dr. Meier did not put a number on that.

19 What I would note, Your Honor, is that in
20 terms of testing compounds, I mean he characterized it as a
21 relatively small class.

22 Now, that within that, if you are testing, doing
23 assaying, and then in conjunction with Dr. DeFrancesco, you
24 could run a lot of assays in a month.

25 So, again, you don't have to -- it's not a

1 matter here of being able to find, for the skilled artisan
2 to go out and find every one. The question is are they
3 going to, as they would in *Wyeth*, have a high rate of
4 futility if they were to do that?

5 And there is no evidence in this record that the
6 skilled artisan practicing the '597 patent, making 2'-methyl
7 compounds, applying, for example, formula 11, would have --
8 the evidence was not introduced that a substantial portion
9 of that would be ineffective or would not work.

10 Now, they bore the burden on this defense. It
11 was on Gilead to come forward with evidence to convince the
12 jury by clear and convincing evidence that this claim was
13 not enabled, and we don't have the type of evidence that
14 they had in *Wyeth*, where you had one compound, one compound,
15 no suggestions or teachings on how to modify that compound.
16 They have that here, lots of teaching about how to modify it
17 using different bases, monos, dis, triphosphates, various
18 substituents suggested, identified as options in the
19 formulas. Prodrugs, salts, so forth. All of that is
20 included here. None of that was present in the *Wyeth*
21 patent.

22 THE COURT: If the only conclusion for the
23 record here is that it would take at least weeks for one of
24 skill in the art to make and have in hand any particular
25 embodiment of the claims, would that favor a finding that

1 the experimentation was undue?

2 MR. GRIFFITH: I would say not, Your Honor. You
3 know, I mean, we are in the drug development area here, and
4 so I think that -- I mean, nobody put a precise timeline on
5 exactly how long it has to be, but in terms of the volume of
6 experimentation that scientists do in this area, all of that
7 in terms of what, you know, what they did and assays they
8 ran and so on and so forth was indicative of, you could
9 spend time on this. I mean, there was no -- you know, in
10 the *UroPep* case, they commented on, look, it may take time
11 to make a molecule according to this patent, but that
12 doesn't change that there's not undue experimentation there.
13 There were ways to do it, it could be done.

14 And coming back to, this sort of relates to your
15 Honor's question about enablement versus full scope. So
16 Gilead has pointed out that in *UroPep*, there were, I think
17 they said a hundred known selective PDE5 inhibitors, so
18 there were some disclosed to the patent. I don't believe in
19 the patent they were specifically identified as selected
20 PDE5 inhibitors, but the Court said, skilled artisans would
21 know that I think maybe it was four of them would be
22 selected PDE5 inhibitors.

23 Then there were others that could be -- that
24 were known, not mentioned in the patent that were known.
25 But the class was alleged to be billions, and Judge Bryson

1 found that whether it was billions or not, it was a very
2 large class. But that didn't change that. You could still
3 do your screening activities and find a compound that -- you
4 know, that would work, not just the ones that were known.
5 All right.

6 So it's a large class of compounds that you
7 would have to screen to find that which would work, but
8 that -- and to do that across the full scope of the claim
9 there. So the claim wasn't limited to just the 100 that
10 were known.

11 So that's the point. They argued that you
12 didn't have to screen. You could just use one of the
13 hundreds. To practice the invention for the full scope, you
14 would have to do some screening. No prohibition on that and
15 it would take some time.

16 THE COURT: All right. But here are the
17 comparable numbers. I think the best case for you are the
18 structural limitation is satisfied by billions of compounds,
19 and at best, you disclose four or maybe six that meet the
20 functional limitation.

21 MR. GRIFFITH: I don't agree with that.

22 THE COURT: Is that a fair understanding of the
23 record?

24 MR. GRIFFITH: I don't agree with that, Your
25 Honor.

1 THE COURT: Tell me where that is wrong.

2 MR. GRIFFITH: First, on the billions of
3 compounds pointed, Dr. Meier -- if we could go to that
4 slide -- disagreed that it was that broad. Again, this is a
5 *Wands* factor, the scope of the claim.

6 Dr. Secrist testified that it would be billions
7 and Dr. Meier said, no. Reading the patent and looking at
8 it as a whole in the way a skilled artisan would, it would
9 be a significantly smaller number than that.

10 THE COURT: Well, I meant to say first with
11 respect to the structural limitation, just structural
12 limitation, what you could put in each of the different 2',
13 et cetera, positions.

14 MR. GRIFFITH: Well, I think that's what Dr.
15 Meier was talking about. In other words --

16 THE COURT: What did he testify to about how
17 many --

18 MR. GRIFFITH: Significantly smaller.

19 THE COURT: Significantly smaller than billions?

20 MR. GRIFFITH: Yes.

21 THE COURT: And so what best case could the jury
22 have decided was the number of compounds, the smallest
23 number of compounds that would satisfy the structural
24 limitations of the claim?

25 MR. GRIFFITH: I think the jury could reasonably

1 have concluded that we're talking about some number of
2 thousands.

3 THE COURT: Because that's significantly smaller
4 than billions?

5 MR. GRIFFITH: Yes. But it's not just that,
6 Your Honor. I mean, Dr. Secrist admitted that you don't
7 check your common sense at the door, and so I think what we
8 see here when Gilead is getting to billions, what they're
9 doing is, they're, for example, they're counting OH at '5,
10 monophosphate of '5, diphosphate of '5, triphosphate at '5,
11 all separate compounds.

12 So that's four compounds there, and then there's
13 four bases, so that's 16 compounds, and they are just doing
14 math here. That becomes an issue, Your Honor, when the
15 patent describes, for example, various prodrug substituents
16 and salts that could be used at various positions. That
17 you're not going -- if you do in the course of going out to,
18 if you do some screening, you find, let's say, one active
19 compound and one inactive compound, you are not going to go
20 make a prodrug of the inactive compound, but in Dr.
21 Secrist's world, all of that counts, because mathematically,
22 that's possible. That's all mathematically possible that
23 could happen with that claim.

24 THE COURT: But he says that because there's
25 nothing in the patent that excludes that from being put at

1 each of those positions, just in terms of the structural
2 limitations. Isn't that correct?

3 MR. GRIFFITH: I think he says that because it
4 drives the number up. I don't think -- for example, if the
5 patent does teach you can put prodrugs at '5, at 3', at 2',
6 you can put them at different positions. So in his world,
7 you may put them at all three positions simultaneously, and
8 I don't think Dr. Meier is going to that type of level.
9 He's taking a more practical approach. So he's recognizing
10 that skilled artisans, when they look at the things that are
11 identified here, yes, you have these options, but you are
12 not necessarily going to try them all at once just because
13 you theoretically can. You could make a prodrug if you
14 wish, but you are not going to put prodrug moieties on all
15 at the same time. And you don't have to go out and make
16 multiple prodrugs. You can if you want to try to optimize
17 and find the best, but that is not required to practice the
18 patent.

19 And this is an intense factual dispute between
20 these two witnesses as to the breadth of the claim and
21 exactly how much. For skilled artisans in this field, how
22 much work it would take them to, applying the teaching of
23 this patent, make compounds according to the patent.

24 THE COURT: All right. Well, then we had -- I
25 think you agree with this. There's a structural limitation,

1 which we've been talking about. Then there's the
2 functionality limitation.

3 MR. GRIFFITH: Right.

4 THE COURT: It has to be effective to treat HCV.
5 Right?

6 MR. GRIFFITH: Right.

7 THE COURT: So in your view, how many
8 embodiments that meet both of those limitations so they have
9 to be effective to treat HCV are disclosed in the patent? A
10 better question: What could the jury have reasonably found
11 are the number of embodiments that satisfy both the
12 structural and functional limitation of the claim?

13 MR. GRIFFITH: Well, they could have concluded
14 that there are many that a skilled artisan could make.
15 Skilled artisans, this is not a large class of compounds,
16 but nonetheless, the numbers are such that it could be a
17 good many. So, for example, so they've agreed today that 2'
18 methyl 2' OH, anything in the base position is enabled, and
19 there I think there was 260 compounds that Dr. Gosselin had
20 logged. Dr. Seeger had identified 38 of them that he said
21 were inactive. So he didn't give us the numbers for, in his
22 opinion, the total active versus inactive, but what he
23 showed to the jury was, 38 bases out of 260 that he said
24 were inactive. So, I mean, there's -- you know, there's a
25 good number of compounds right there.

1 Dr. Sofia, when he made his prodrugs, he was
2 working on the prodrugs, he made 140, on that order, of
3 prodrugs, again, trying to optimize and find which is best.

4 THE COURT: And there was evidence from which
5 the jury could have reasonably found that all of those were
6 effective to treat HCV?

7 MR. GRIFFITH: Yes, Your Honor. I mean, the
8 compound was certainly active, and he had his -- they
9 introduced his patent into evidence, and it has -- well,
10 that was one that has a billion, million compounds if you
11 count the way Dr. Secrist does. It has lot of options. I
12 think it had 80 or so examples of prodrugs that were active.
13 He never testified that any of the 140 were not active, so
14 the jury could have reasonably concluded from that evidence
15 that there are a good number of compounds coming from a
16 variety of ways, there are a number of changes that could be
17 made that are effective and that are active here, and that
18 they did not see evidence that there was a -- the evidence
19 was not introduced to show that there was a substantial
20 portion of the examples and options and so forth illustrated
21 in the patent, that they were not effective.

22 So this is, as I said, this is not a -- they
23 characterized it their brief a needle-and-haystack
24 situation, but there is insufficient evidence here that that
25 is what this is. You only get there by doing this

1 theoretical mathematical approach that Dr. Secrist advocated
2 for. Dr. Meier said that that is not the way skilled
3 artisans would approach this patent, and the jury could have
4 resolved that fact issue in favor of Idenix.

5 Your Honor, may I speak to the 2' methyl, 2'
6 fluorine synthesis issue?

7 THE COURT: Sure.

8 MR. GRIFFITH: And if there are any other
9 questions Your Honor would like to ask about this breadth of
10 the claim?

11 THE COURT: There probably are, but I will ask
12 them. You move on as to what you want to move onto.

13 MR. GRIFFITH: The points I want to make here,
14 Your Honor, are that -- so the argument is that it would be
15 undue experimentation for the ordinary skilled artisan to
16 synthesize 2' methyl, 2' fluoro-based on this patent. A
17 detailed recipe for every species does not have to be put
18 forth in the specification. That's not the law. General
19 synthetic routes are disclosed.

20 I looked at -- I showed this to Your Honor
21 earlier. The jury could have reasonably concluded from Dr.
22 Otto's testimony that Mr. Clark was guided by, instructed in
23 his synthesis work by the '597 patent. It was the PCT
24 version of it, but it was the same specification.

25 He said that he used DAST, a well-known

1 fluorinating agent, so this was something that skilled
2 artisans knew about. He testified that it was -- it could
3 be done quickly, about 15 minutes. He thought he succeeded
4 in his first try. This is not undue experimentation. This
5 is not needle in the haystack.

6 And Mr. Clark had below level of ordinary skill
7 in the art experience, so he was just a Master's in
8 chemistry. The testimony was the PMDs, it could be a lower
9 degree, but it would be some number of years of experience.
10 Mr. Clark was below that ordinary level of skill.

11 Now, so the jury could have reasonably concluded
12 from the Clark evidence that it was not undue
13 experimentation to make 2' methyl, 2' fluoro with the
14 knowledge of the '597 patent in hand.

15 Gilead submitted competing evidence, Griffon
16 evidence, from which it argued that Idenix failed when
17 trying to make this compound, and that that indicated that
18 the skilled artisans would find this difficult to do.
19 And even so, Dr. Griffon did testify that he thought he
20 actually did arrive at an effective route, but that he
21 didn't realize it at the time. And the reason, the
22 testimony on that was that he didn't look at all of the
23 spots when he ran his TLC, so he looked at, I think it was
24 one spot, and there were other spots on the plane that he
25 should have looked at.

1 And, but this was an intensely -- intensely
2 factual dispute that the jury was entitled to weigh the
3 evidence on and reach its conclusions based on its
4 credibility determinations, and there's no outcome here that
5 is required as a matter of law.

6 *Liebel-Flarsheim* is not on point. That is the
7 pressure jacket and non-pressure jacket case. The claim
8 covered both, but the patent criticized non-pressure jacket
9 designs. Now, they emphasize that in *Liebel*, the inventors,
10 or at least the engineers at the inventor's company
11 struggled to make or failed to make the design without the
12 pressure jacket, but the Court pointed out that it was --
13 it was that evidence coupled with, coupled with the
14 criticism of that design in the patent that led it to
15 conclude that there was a failure of enablement there.
16 And we did not have competing evidence there like we have
17 here in Clark.

18 Now, they point out, well, the infringer there
19 made it, but that's -- it's not the circumstance we have
20 here with Clark walking into Dr. Otto's office with
21 specification in hand back in the relevant time period and
22 so forth. There was nothing comparable to this. And as I
23 said, they emphasized the teaching away, which is not
24 present in this patent.

25 And then they rely on the *Storer* decision, but I

1 have not heard argument from them, and I don't think there
2 is one that collateral estoppel or some other legal doctrine
3 mandates that the outcome in *Storer* be applied here. It's
4 not. It was a different patent, different proceeding,
5 different burden of proof, and so forth, and so it doesn't
6 mandate the jury have reached the conclusion that the
7 Patent Office reached in connection with that patent in that
8 case, which was not the '597 patent.

9 THE COURT: Did the Federal Circuit have in
10 front of it the evidence about Mr. Clark that you introduced
11 at this trial?

12 MR. GRIFFITH: No, Your Honor. Now, we had the
13 Clark patent and we had some evidence regarding that work,
14 but we did not have the testimony from Mr. Clark that we
15 showed to the jury, and there was a reason for that. That
16 testimony was procured in part in this case and in part in
17 connection with the 1782 petition in a foreign proceeding.
18 And Gilead demanded in connection with that 1782 petition in
19 discovery, that deposition of Mr. Clark, that we agree to a
20 protective order. A protective order was entered at their
21 insistence, that the Clark deposition could not be used in
22 the interference proceeding.

23 So they were concerned that we would be using
24 1782 discovery to get discovery in the interference. They
25 said that would be foul play. The Judge entered a

1 protective order. We weren't permitted to use the Clark
2 depositions in the interference. Likewise, the Dr. Schinazi
3 testimony regarding the importance of 2' methyl were not
4 permitted to be used in that proceeding. Dr. Storer
5 testified and all of this went to the reaction to the '597
6 patent at the time and it also went to synthesizing 2'
7 methyl 2' fluoro.

8 Dr. Griffon's further deposition in this case,
9 or we showed the testimony there, was not available at the
10 time.

11 The Pharmasset grant applications, where they
12 relied on the '597 patent, was not in evidence there.

13 So it was a different evidentiary record and
14 there were various reasons for that, but it was not the same
15 record. And that in and of itself is a reason why that case
16 cannot be applied here. Likewise, different burden of
17 proof. And under *Baxter* -- I'm sorry. If this is the
18 portion of *Baxter* saying it's a different evidentiary
19 record, the Patent Office can reach a different conclusion
20 from the District Court, and this is what happened in
21 *Baxter*.

22 They also said the same thing with respect to
23 burden of proof, and they as well, Your Honor, said that
24 even if you had the same evidence, it could come out, same
25 patent, same patents. This is a different patent, different

1 evidence, but they said even if you had the same patent,
2 same evidence, you could come out with a different
3 conclusion just because of the different burden of proof.

4 Here, the jury had competing evidence on this
5 factual issue, whether under the *Wands* factors it would
6 require undue experimentation to take 2' methyl, 2' fluoro.
7 All the testimony about synthesizing nucleosides had been
8 happening for decades. I think Dr. Secrist said more years
9 than I can remember.

10 So this is about synthesis. So synthesis went
11 back a long time. The jury could weigh that evidence,
12 predictability, could weigh that evidence. I understand
13 that Gilead made arguments to the contrary, but they did not
14 have to credit those arguments. They did not have to credit
15 the testimony going Gilead's way. They could have credited
16 Idenix's testimony, and that is what they did. And they
17 found in favor of enablement.

18 Now, on written description.

19 I want to, before I get to written description,
20 Your Honor, I wants to go back to, real quickly, the *Wands*
21 factors. And if I could back to slide, I think it's around
22 13 -- or, you know, let's go back to 13.

23 All right. We did talk about this one.

24 The patent pointing to what enzyme this is
25 working on. This was a fact dispute. They disagreed with

1 it.

2 Synthesis roots are taught in the patent.

3 How to make representative compounds.

4 And the formula 11.

5 And Dr. Meier went through all of this.

6 Dr. Secrist testified that you don't make
7 foolish decisions or foolishly try to make anything just
8 because you can.

9 This is the Clark testimony, the grant
10 application.

11 Now, were there working examples? So that is
12 one of the *Wands* factors that the Court instructed the jury
13 on. Yes, there were. There were here. There were not in
14 *Enzo*.

15 There was data for the working examples.

16 How routine was any necessary experimentation in
17 the field?

18 This was a lot of synthesis procedures were
19 known.

20 Synthesis was not in its infancy.

21 Screening compounds was routine.

22 The quantum of experimentation necessary.

23 Screening thousands was known.

24 You could synthesize quickly. You didn't have
25 to be slow.

1 The nature and predictability of the art.

2 This is where it was commented on that this was
3 not the first nucleoside to treat a viral disease that came
4 around.

5 All of these were factual evidence that the jury
6 could have credited and specifically following the *Wands*
7 instructions that they were given by the Court and they
8 could have reached these conclusions on these fact issues in
9 favor of Idenix.

10 It's common to think about large classes of
11 compounds in this field, as testified to by their expert,
12 Dr. Secrist.

13 There was -- and Gilead's counsel mentioned this
14 in his presentation. This is the Storer testimony about we
15 would look to mimic structures at 2' down, and Gilead's
16 counsel criticized him because he said, well, this wasn't
17 specifically tied to the patent, but this was back in 2001
18 when he started at Idenix and it was exactly in this field,
19 exactly on these sorts of compounds.

20 So it's completely relevant to what persons of
21 ordinary skill in the art do. The jury was entitled to
22 credit this evidence.

23 THE COURT: Did anybody ever say what one of
24 skill in the art, though, would have known about that
25 mimicking?

1 MR. GRIFFITH: Yes. Dr. Storer said that one of
2 the tools they had was to use, to look for mimics of OH at
3 the 2' down position.

4 And he commented, fluorine is a small
5 electronegative atom, so it doesn't introduce a large steric
6 demand.

7 THE COURT: I think part of the argument was he
8 is not necessarily one of skill in the art, and he is not
9 necessarily testifying about one of skill in the art, what
10 was skill in the art that the expert would know at the time.

11 MR. GRIFFITH: They could have made that point
12 to the jury. They could have tried to attack the
13 credibility of that testimony by that sort of criticism, but
14 at the end of the day, this is for the jury to decide. This
15 was not irrelevant, and when it came into the case, it was
16 not objected to as being irrelevant.

17 Those are criticisms they were free to point out
18 to the jury, but it doesn't establish as a matter of law
19 that this is something that a person of ordinary skill in
20 the art would not have done.

21 On the contrary, it seems pretty clear that a
22 person of skill in the art would have done this, was doing
23 it. The level of skill is very high.

24 And then we talked about the scope of the
25 claimed invention and the differing testimony on that.

1 This is, on every single *Wands* factor, we put on
2 evidence, really a mountain of evidence on each one, and
3 established that following this Court's jury instruction,
4 the jury should come out in favor of Idenix on enablement.

5 And having put in certainly far more than a mere
6 quantum of evidence on each and every *Wands* factor, I think
7 this Court needs to actually find on each and every *Wands*
8 factor that they found in Idenix's favor. This was a
9 judgment as a matter of law. We're not at the closing
10 argument stage.

11 So having done this, it is really a mountain of
12 evidence, the jury could reasonably have reached a verdict
13 in favor of the plaintiffs on enablement.

14 THE COURT: Well, before you go back to written
15 description, let me ask you some more questions.

16 I think on the enablement question, as I
17 understand it, it is Idenix's characterization of their
18 invention that the key to it, the critical part is the
19 2'-methyl up; correct?

20 MR. GRIFFITH: Correct. The 2'-methyl
21 ribonucleoside structure.

22 THE COURT: So does that mean that at least all
23 compounds with 2'-methyl up ribonucleosides have to be
24 enabled in order for this patent to be valid?

25 MR. GRIFFITH: No. No, it does not. And so,

1 for example --

2 THE COURT: So why is that? Why does the one
3 not follow from the other?

4 MR. GRIFFITH: Well, because that is what *Wands*
5 tells us. So you can have some amount of strike outs in
6 this in connection with the patented invention and that does
7 not disenable a claim. The success rate in *Wands* was
8 44 percent.

9 Gilead's counsel agreed that a 2'-methyl OH down
10 ribonucleoside is enabled, and that this claim, if it was
11 limited to OH at 2' down would be enabled even though their
12 own witness found 38 ribonucleosides with that formula that
13 he said were not active.

14 That amount of failure does not create undue
15 experimentation. It's very common, Your Honor, to have
16 inoperable embodiments within the scope of the claim that is
17 not fatal to a claim.

18 THE COURT: So your view is in order to be
19 enabled, it is not necessary that this patent teach those
20 skilled in the art how to make and use the full scope
21 without undue experimentation of all embodiments that have
22 the 2'-methyl up? It is the key to the invention but we
23 don't have to tell a person of skill in the art in the
24 patent how to make and use all of those embodiments?

25 MR. GRIFFITH: That is not what I'm saying, Your

1 Honor. And I apologize if I'm unclear. Let me try again.

2 You do have to enable for the full scope of the
3 claim. I agree with that. The patent is required to enable
4 using 2' ribofuranosyl nucleosides, methyl up, nonhydrogen
5 down, to treat hepatitis C, to be effective in treating
6 hepatitis C.

7 What I'm saying is the fact that when the
8 skilled artisan, following the teachings of this patent,
9 sometimes makes a 2'-methyl compound that is inactive, so
10 it is a strike out, that does not mean that the claim is not
11 enabled. You are allowed to have some amount of failure.
12 That was exactly the circumstance in *Wands*.

13 THE COURT: Okay. In order for the claim to be
14 enabled, does the patent have to tell us somewhere that what
15 is key or what is critical is that 2'-methyl up be used at
16 the 2' position?

17 MR. GRIFFITH: I don't know that it has to, but
18 the evidence, the overwhelming evidence in this case is that
19 it did. And Dr. Meier so testified to that.

20 But it wasn't just Dr. Meier. Those Pharmasset
21 scientists pointed right to the 2'-methyl feature. And they
22 didn't say, you know, it's the 2' in combination with OH
23 down or some other thing. They pointed to the 2'-methyl
24 feature. So we have that circumstance here.

25 Now, I get that they argued and their experts

1 disagreed with Dr. Meier's opinion on that point, but that
2 is a fact issue in terms of what skilled artisans, the
3 ordinary skilled artisan would understand and appreciate
4 from reading this patent. That is part of the guidance
5 aspect of the *Wands* factors that the jury assessed, weighed,
6 and came out in favor of Idenix on.

7 They didn't have to come out in favor of Idenix
8 on every *Wands* factor, by the way. As the Court instructed
9 the jury, they can -- no one is dispositive, and the jury's
10 duty was to weigh the *Wands* factors and size them up on
11 their own and reach their conclusion based on their weighing
12 of the evidence. It wasn't that one trumped any of the
13 others or was controlling over the others.

14 THE COURT: In the cases, what, if you know, is
15 the longest amount of time that courts have looked to for
16 how long the experimentation would take and still said that
17 that claim is enabled?

18 MR. GRIFFITH: I'm trying to think about it. I
19 mean in the *UroPep* case, they certainly said it can take a
20 lot of time without quantifying specifically how much it
21 would be.

22 Now, again, if you select one that is identified
23 in the patent or, you know, of the PDE5 inhibitors, then
24 that would be quicker than if you try to make some
25 embodiment that is not depicted but in *UroPep* they said it

1 can take a long time.

2 That it's not the guidepost.

3 THE COURT: Dr. Sommadossi testified there is no
4 disclosure of the 2'-methyl up fluoro down nucleoside
5 disclosed; isn't that correct?

6 MR. GRIFFITH: There is no -- right, that
7 specific species was not called out in the specification,
8 that's correct, as was discussed in claim construction. And
9 at the time, they said that constituted a disavowal. They
10 said that was a specific exclusion. And the Court found
11 that that silence on that was not a specific exclusion, was
12 not a disavowal. This is not a *Liebel-Flarsheim* situation
13 where it was a criticism of the jacketless design in
14 *Liebel-Flarsheim*. Here, there was no criticism of using
15 fluoro at the 2' down position. None.

16 THE COURT: Okay. You can move on to written
17 description, if you want to.

18 MR. GRIFFITH: I guess, you know, I'm thinking
19 about your question, Your Honor, about, I mean I just don't
20 think there is, under the *Wands* factors or under any other
21 of the Court's cases, any hard and fast rule about what is
22 the maximum amount of time.

23 If I go back -- and it is always dangerous to
24 think out loud but I'm going back. If you go back in time
25 to the invention of the automobile, and we're talking 1800s

1 at some point in time, no doubt for someone to take that
2 patent and construct an automobile would take some
3 substantial amount of time. It just would. Putting an
4 entire automobile together by hand would take time. That
5 doesn't mean it would be undue experimentation. That is why
6 we have these *Wands* factors that look at the particular
7 context of the art and have the experts testify about that
8 and deal with fact issues in that fashion.

9 On written description, Your Honor, I'll keep my
10 comments brief. I promise.

11 THE COURT: I know I have taken a lot of your
12 time with enablement.

13 MR. GRIFFITH: And that is fine.

14 The issue has been decided here, twice actually.
15 And the Court, in denying their motion for summary judgment,
16 said the fact-finder could credit Dr. Meier's opinion and
17 analysis and find as he opines that the inventors had
18 possession of the claimed invention.

19 The record also contains Gilead documents which
20 was, for example, the grant application, but not just that,
21 from which a reasonable fact-finder might conclude that
22 Gilead and/or its predecessor Pharmasset recognized that the
23 inventors of the patents-in-suit were in possession of their
24 claimed invention.

25 The fact-finder here, the jury, did reasonably

1 credit Dr. Meier's opinion and other evidence and find that
2 the inventors had possession of the claimed invention.

3 And evidence that the Court pointed to as
4 showing a fact dispute to be resolved by the jury was the
5 disclosure that the invention of nucleosides may inhibit HCV
6 polymerase activity. That is what is the target.

7 The patented formulas, the Court noted. The
8 patent data was pointed out. And we introduced evidence on
9 all of those things.

10 We introduced the Gilead documents that the
11 Court pointed to. Dr. DeFrancesco commented on those, the
12 significance of those to a virologist.

13 The specification. The Court pointed out the
14 spec shows the inventors were in possession of nucleosides
15 with certain structural characteristics that were effective
16 to treat HCV. We introduced that with Dr. Meier. They
17 haven't denied any of this testimony was submitted.

18 And the Court, in pointing out the fact dispute,
19 noted, for example, that the Gilead documents were an
20 independent reason for denying the summary judgment motion,
21 as it is here for denying JMOL.

22 This is really where their big distinction comes
23 for the written description issue. And that is that they
24 say Dr. Meier didn't come forward, didn't come through with
25 this particular testimony. He testified that the inventors

1 had possession of a definite class of compounds ... useful
2 in the treatment of HCV. But they say he didn't finish
3 up with the naturally occurring substrate of the HCV
4 polymerase.

5 Now, we've pointed out "sufficient to be useful
6 for inhibiting."

7 Now, Dr. Storer did introduce, by the latter
8 part, did introduce testimony that is substantively the same
9 thing.

10 And certainly Dr. Meier did testify regarding
11 the inventors were in possession of a definite class. He
12 went through the patent, formulas, illustrations, data, and
13 so forth, and concluded that it was not limited to the
14 specific options that are described at the 2' down position
15 which was the issue we were looking at. So the issue had
16 been decided.

17 There is no failure of proof on our part. We did
18 not bear the burden of proof on this, but we came forward with
19 lots of evidence once the jury could reasonably have concluded
20 that they failed to prove this written description defense by
21 clear and convincing evidence, as they were required to do.

22 It's an intensely factual issue like enablement.

23 And Dr. Meier came through with his testimony.
24 He specifically was asked, after having reviewed all of
25 those things, it was not conclusory. He went through the

1 patent in detail.

2 And he said -- was asked: Would a skilled
3 artisan being able to recognize the 2'-methyl up
4 ribonucleoside class of compound without having every member
5 specifically listed?

6 And the answer was: Yes. Definitely.

7 It's a fact issue for the jury to decide. The
8 jury would have credited that testimony as well as all the
9 other evidence that we submitted on this and come out in
10 favor of Gilead -- I'm sorry, come out in favor of Idenix.
11 There is no matter of law circumstance here.

12 Your Honor, enablement is in the law to ensure
13 that the public has adequate teaching commensurate with the
14 right to exclude. And Gilead's counsel referred to the
15 public policy behind this here, and he alluded to that there
16 was a detraction, detraction from the field that may have
17 occurred because of this patent.

18 And, Your Honor, we see anything but that here.
19 We see that 11 out of the 12 compounds that have made it
20 into clinical trials to treat HCV are compounds according to
21 this patent.

22 The public got the teaching that they were
23 entitled to in this patent. There is no better testament to
24 that than the Pharmasset scientists who cited this paper for
25 the proposition of a 2'-methyl class of ribonucleosides is

1 effective to treat HCV.

2 Without the teaching of this patent, there is
3 no -- without that. I mean, they got 2' methyl idea from
4 Idenix. That's where it came from.

5 So this patent provided the information
6 necessary for Pharmasset to get its drug to market as well
7 as for the good many other compounds that made it into
8 clinical trials with a 2' methyl ribonucleoside structure as
9 described in the claim.

10 We submit that there is ample evidence here
11 under which the jury could reasonably have reached its
12 conclusion that Gilead did not prove that the claims in this
13 patent are not enabled or that they fail under the written
14 description test.

15 THE COURT: Okay.

16 MR. GRIFFITH: Thank you, Your Honor.

17 THE COURT: Thank you very much.

18 Do you want rebuttal?

19 MR. SINGER: Do you want to take a lunch break?

20 THE COURT: No. I would rather hear from you
21 first.

22 MR. SINGER: Okay. Your Honor, I guess I want
23 to start -- I've got a lot and I will try to organize them
24 as best I can.

25 I want to start really with something that

1 counsel for Idenix said in the middle that I found really
2 remarkable, and just to remind the Court, that I think
3 something to the effect of that Dr. Secrist sort of
4 artificially inflated the numbers that are impacted here,
5 and you wouldn't want to make a prodrug of an inactive
6 compound. That's what's sofosbuvir was. The jury, no
7 contest, no contested evidence about what sofosbuvir
8 actually was. It was an inactive nucleoside, 6206, if the
9 Court looks at record, that was then modified by Dr. Sofia
10 to turn it into the great success that it is today, by
11 adding a phosphate moiety to it to make it have some
12 activity and then adding a prodrug. So the notion that
13 someone wouldn't look at inactive nucleoside to then meet
14 the effectiveness limitation is simply both remarkable given
15 what was found to infringe here, what was conceived to
16 infringe, but it's not supported by record.

17 Picking up on that, in terms of the sort of the
18 numbers of compounds that are impacted by the claims, I
19 heard an assertion that it was thousands. I don't think
20 record has that number in it. Dr. Meier I believe said
21 varied a lot of compounds if you look at what he said, and I
22 will give you the cite, Your Honor. What he was describing
23 was actually not a -- he was describing a theoretical
24 approach tied to what was actually listed in the patent, not
25 a theoretical approach divorced from the patent. You know,

1 counsel showed Dr. Secrist being crossed about plutonium and
2 mercury. Well, plutonium and mercury, they're not listed in
3 the patent as something someone of skill in the art would
4 consider, ever. I think Dr. Secrist was saying the obvious,
5 one can put plutonium on here.

6 But what Dr. Meier said, and this is at page
7 1918, is -- he's being asked that he disagrees that there
8 are billions, and he says, you know, why is that number much
9 too large? This is the -- of course, if you take the
10 theoretical approach to discuss all the structures that are
11 mentioned in the '597 patent, also in the '585 patent, then,
12 and that's the priority application, then there are very, a
13 lot of compounds. So he's talking about what is disclosed,
14 that if you take those, there are a lot. And then he
15 circumscribes it by talking about the 2' methyl and the
16 inhibition of the NS5B polymerase. So it's either a lot or
17 billions, but it's tied to the substitution that the patent
18 recommends.

19 You asked, Your Honor, about this issue of
20 making new compounds versus, you know, going to the library,
21 if you will. Actually, Dr. Secrist was cross-examined by
22 counsel on that very point, so the record does reflect, and
23 I will direct your attention to page 1728 of Dr. Secrist's
24 cross-examination.

25 "Question: And, by the way, sometimes you

1 wouldn't even necessarily have to synthesize it anew.

2 Right? Sometimes you can find compounds in an existing
3 library with it already available. Right?

4 "Answer: In an existing library, you mean buy
5 it from somebody?

6 "Question: Buy it from somebody, or maybe if
7 you are a large company, you have it in your library of
8 compounds?

9 "Answer: Any company that worked on nucleosides
10 would presumably have some. They don't last forever, but
11 they would, and they're all different. But it is a pretty
12 small number, very small number, I would say."

13 That's a record about what was available
14 pre-existing that you didn't have to make. And it's ironic
15 that Merck, the Merck library was mentioned, because the
16 jury saw evidence about what Merck's views were on modifying
17 nucleosides, and this is from, Your Honor, DX-2802, page 8,
18 which is an e-mail that the jury saw about the Merck Isis
19 collaboration, about the effort required. Along those lines
20 I think we have to be very careful and clear about what we
21 collectively chose to synthesize, since it is apparent that
22 there may be a lot of synthetic effort required even for
23 minor modification of compounds you already made.

24 So even suggesting, even stating that the
25 methods were known to make nucleosides, the record before

1 the jury was not simply that it would be, snap, you just go
2 to the library and, snap, you can make them, it took time.
3 That's why Dr. Tausek talked about it would be a lot to do
4 37 a month, and Dr. Secrist said uncontested, that a person
5 could make about two to four per month. That's what he
6 talked about. Dr. Meier never addressed how much time it
7 took.

8 The other point, Your Honor, is, in going
9 through, if you will, the *Wands* factors, actually the record
10 we presented on JMOL basically accepts what Idenix is saying
11 with respect to how the jury might have found those. With
12 respect to the scope of the claimed invention, I actually
13 think the parties aren't in that big of a disagreement.
14 There are a lot of compounds impacted by the structure that
15 are then narrowed by the effectiveness limitation. That's
16 the seventh factor.

17 And on operability, Your Honor, this is really a
18 fact-based case on that point. Sure, there's some case law
19 that talks about inoperative embodiments, but this patent as
20 it relates to full scope has to enable the full scope,
21 everything, because there are no inoperative embodiments by
22 the nature of the claim language. The claim language
23 requires that they be effective, that the 2' methyl
24 ribonucleoside must be effective to treat HCV. So there are
25 no inoperative embodiments possible by the claim. And all

1 the strikeouts that counsel is saying is permitted, that's
2 the problem. Finding the effective ones, you strike out a
3 lot. That's what the experts said. You don't know until
4 you make a test, and that was record evidence before the
5 jury about the struggles of Idenix to identify effective 2'
6 methyl compounds.

7 And a couple more points, Your Honor. Again,
8 I'm happy to address whatever the Court would like.

9 On predictability, Dr. Meier was clear that he
10 was of the same view, that this was an unpredictable art,
11 the art being the use of modified nucleoside to treat HCV.
12 That was the field we had in this case. It's not the use of
13 nucleosides to treat viruses, it's the use of nucleosides to
14 treat HCV.

15 And I asked him, because if the Court will
16 recall, Dr. Meier actually didn't even start working in the
17 field until 2012. And I asked him on cross-examination
18 about what he learned when he did this in 2012. Well, I was
19 talking about 2012, and this is page 1929. When you started
20 working on it, the "it" being the field of nucleosides for
21 treatment of HCV, you learned how unpredictable it could be,
22 didn't you? Yes, of course.

23 The other couple points, Your Honor, there was
24 raised some case law and there was a heavy reliance on the
25 *Wands* case, and that's an instruction that faces the Court.

1 It's the seminal case with the *Wands* factors. I actually
2 think that's not correct, the 44 percent. That was sort of
3 the inventive process that they went through. But the Court
4 then commented on the actual practice of the claims. You
5 know, if you practice the claims, would you always, or would
6 you sometimes achieve inoperative results? And what the
7 Court said at page 858 F2d. 740 is, you know, the Court is
8 talking about that the antibodies used to practice the claim
9 method are obtained by a process which entails, quote,
10 "immunizing animals, using lymphocytes from the immunized
11 animals with myeloma cells to make hybridomas and screening
12 the antibodies produced by the hybridomas for the produced
13 characteristic."

14 *Wands* carried out the entire procedure three
15 times and was successful each time in making at least one
16 antibody that satisfied all the claim limitations. Here,
17 the evidence is that people would make things trying to
18 satisfy the claim limitation and they would fail. And
19 the only examples in the patent are with the one substituent
20 bound do not go to the breadth of the possible substituents.

21 Just one comment on *Wyeth*. I don't know if
22 counsel misspoke or not, but the structure in *Wyeth*
23 comparable to 2' methyl absolutely was identified. It was
24 the macrocyclic structure. That was the discovery, that
25 that macrocyclic ring bound in a certain way to achieve the

1 anti-restenosis effects.

2 And, Your Honor, an awful lot is being put on
3 that grant application, and if the Court reads what was
4 highlighted in slide, I think it's slide number 21, you will
5 see it says, several classes of sugar modified nucleosides
6 were recently disclosed. And, of course, the
7 ribonucleoside, the sugar in its natural state, has 2' OH
8 down and 3' OH down. And they can be divided. So that's
9 what we're talking about, modifying the sugar of the natural
10 ribonucleoside, which has the 2' OH and 3' OH. And then it
11 goes on to say, they can be divided into the following three
12 classes, and they highlighted the 2' modification of methyl,
13 where 2' methyl is the modification, and then they identify
14 the compound. Among them, 2'-C methylcytidine is
15 representative of that class of modified nucleosides with a
16 potent anti-HCV activity.

17 2'-C methylcytidine is methyl up, OH down, so
18 all they're talking about is one of the very examples that's
19 in the patent in suit. It's no more comment on the full
20 scope of this claim as we transfer from OH down to anything
21 else down at 2' than the patent does, which doesn't have any
22 examples of that at all.

23 Your Honor, just a couple more points and then I
24 will be done.

25 With respect to the Storer testimony, I think I

1 was making the point that there's a legal requirement in
2 enablement to link the understanding of a person of skill in
3 the art about this mimicry point to the disclosure of the
4 patent, and this is the novel aspect of the patents-in-suit.
5 It needs to be in there. You can't fill it with the
6 testimony of a scientist talking about something else to, if
7 you will, gap fill for enablement. That has to be in the
8 patent specification. But I suppose even if there's some
9 exception to that, that has to be linked, that a person of
10 skill in the art would make that same conclusion after
11 reading the patent specification. That would be sufficient
12 to support enablement.

13 And then, Your Honor, with respect to Mr. Clark,
14 again, I would just emphasize, you asked me, you know, isn't
15 the jury entitled to accept certain things he said and
16 object to other things he said? That's certainly true. But
17 they're asking for an inference is what they are asking for,
18 to infer that Mr. Clark was guided by the '597 patent. He
19 testified that he went into the office with it, and they are
20 asking that there be an inference given that you have to
21 look at all the testimony and determine whether or not it
22 was a reasonable inference.

23 And, you know, finally, Your Honor, subject to
24 checking with these folks over there if I've missed
25 anything, again, happy to answer any questions.

1 I just want to say, what we heard at the end was
2 a plea, if you will, that this was an important and
3 groundbreaking discovery, and the Court can very well find
4 that. You know, I'm not here to talk about the merits. I
5 think I said that at the beginning, that regardless of what
6 the merits of the patentee might have contributed, the
7 question for this Court is whether the claims of the patent
8 go too far? Are they too broad given what the patentee
9 actually discovered? And it's right there in the *Ariad*
10 cases and all of them. Patents are not awarded for academic
11 theories. And here I will say it wasn't just an academic
12 theory, but the theory that any 2' methyl up would be
13 active, that is an academic theory that is not borne out by
14 the evidence, and no matter how groundbreaking or necessary
15 to the later patentable inventions. That's from the *Ariad v*
16 *Eli Lilly* case, Your Honor, 598 F 3d. 1353.

17 The fact that other molecules utilize 2' methyl,
18 that's the point. They had to do the work to, if you will,
19 later enable the full scope of these claims. They are not
20 enabled by the patent specification, as I think the record
21 amply demonstrates before this jury.

22 THE COURT: All right.

23 MR. SINGER: Let me just check if I missed
24 anything.

25 THE COURT: I also have a few other questions

1 for you.

2 MR. SINGER: Okay.

3 THE COURT: Then I will let you check.

4 MR. SINGER: Very well.

5 THE COURT: On the *Wands* factors, is it your
6 view that there's not a single change due to material fact
7 with respect to any of the *Wands* factors?

8 MR. SINGER: I think there might be -- you know,
9 I don't think -- no I guess would be my answer because we
10 believe as a matter of law enablement, lack of enablement
11 has been shown. I think there have been arguments made
12 about the quantity of experimentation that is necessary that
13 do not reflect what record actually shows, and about the
14 scope of the structure impacted by the claims that are also
15 not supported by what record shows, but in our view, the
16 undisputed facts show a lack of enablement under the *Wands*
17 factors.

18 THE COURT: There was some reference during
19 Mr. Griffith's argument to the identification of a
20 polymerase that was being attacked essentially in order to
21 treat HCV. Is that an element of the claim here?

22 MR. SINGER: It is not an element of the claim.
23 I mean, I think what I said at the beginning was that we
24 dispute that that is an element of the claim. I don't think
25 the Court needs to resolve that issue to decide Gilead's

1 motion here, but --

2 THE COURT: Does it have any relevance to the
3 enablement question?

4 MR. SINGER: I think it does, Your Honor, in
5 that the Court could readily find that the patent actually
6 doesn't teach explicitly that the things covered by the
7 claim have to be active with the polymerase. The patent
8 actually says they may be active in the polymerase, but they
9 also may act in other mechanisms, and the jury heard
10 testimony about ribonucleosides, which is a nucleoside that
11 acts through a different mechanism.

12 But I actually think in terms of resolving the
13 issue, it's -- I don't believe it's necessary for the Court
14 to resolve that issue to rule on the JMOL, because even
15 accepting Dr. Meier's premise that the patent directs you to
16 the NS5B polymerase, it still requires undue
17 experimentation.

18 THE COURT: And on whether or not the patent
19 teaches away from fluorine because it doesn't expressly
20 disclose it, given the jury finding, could I in any way
21 credit your argument about it essentially teaching away from
22 fluorine?

23 MR. SINGER: I think, Your Honor, the jury is
24 allowed to make those findings that are supported by the
25 evidence. And I think you could find that the failure to

1 list fluoro, while listing it in other places, that the
2 jury's conclusion that that is okay is not supported by
3 substantial evidence. I don't see that the jury verdict is
4 an obstacle to that finding.

5 THE COURT: Do you want to confer, see if you
6 have anything else to add?

7 (Pause while counsel conferred.)

8 MR. SINGER: Your Honor, they are telling me I
9 did okay.

10 THE COURT: All right.

11 MR. SINGER: We can go to lunch.

12 THE COURT: If you would like to add anything,
13 you certainly may.

14 MR. GRIFFITH: Thank you.

15 First, Your Honor, on the point about Dr.
16 Storer's testimony about mimicking OH, that goes in part to
17 predictability, so this is, as I said, a tool that a skilled
18 artisan used, and used at the time to synthesize, and so
19 that was -- it was a predictive tool for them.

20 And the second point I would make about that is,
21 and I apologize if I was less than clear in my first go
22 round, is that that section of the patent that is talking
23 about acting on the HCV polymerase and preferred embodiments
24 specifically doing the HCV polymerase assay, that is honing
25 in on the mimicry aspect of the invention.

1 So Dr. Sommadossi testified about this
2 invention, that what happens is, you have to phosphorylate
3 so that the ribonucleoside will be taken up by the
4 polymerase, and then what happens is you have chain
5 termination when it does. This is the way the HIV drug AZT
6 worked, so that was his background in getting to this. AZT
7 was a deoxyribonucleoside, but the concept was the same.

8 So the concept of mimicking the ribonucleoside
9 is present in that disclosure in the specification talking
10 about acting on the HCV polymerase.

11 And then the point I want to make about *Wands*,
12 it was, the *Wands* -- Wands was the patent applicant in that
13 case, and Wands himself argued that his success rate was
14 four out of nine. That was the 44 percent.

15 And I was looking for the places in the
16 specification -- in the opinion that noted that it was
17 specifically called out in Judge Newman's dissent in that
18 case, and I didn't see where it was specifically called out
19 in the majority opinion, but it was Wands's position that he
20 was successful 44 percent of the time.

21 And then elsewhere in the decision, page 738,
22 *Wands* submitted a declaration first for fusions were
23 unsuccessful and produced no hybridomas, the next six
24 all produced hybridomas, hybridomas that may have antibodies
25 specific for hepatitis B. Wands had failure. He had

1 failure.

2 Now, Mr. Singer pointed out that there was
3 another instance pointed out here where screening antibodies
4 all three times in the entire procedure, he got at least one
5 antibody, but he had a lot of strikeouts.

6 And then in terms of why does that matter here
7 is that we say that skilled artisans may experience some
8 amount of, I've got a ribonucleoside that is not active, but
9 that is not -- no evidence indicates that is happening with
10 an undue occurrence rate or a substantial portion of the time.

11 And the second point on that is, so Mr. Singer
12 pointed to, by definition, you can't have inoperative
13 embodiments because this claim requires effectiveness.

14 I think the claim in *Wands* required the ability
15 to bind the hybridoma at a certain affinity level. So it
16 was the same situation, and it was the same issue, and that
17 is do you have enough information to make compounds that
18 are effective, that bind the HBV surface antigen that are
19 effective against HCV? Do you have enough information in
20 the patent for skilled artisans to practice the invention
21 without undue experimentation?

22 The Court in *Wands* said yes. Even though more
23 than half the time you are going to strike out, that is
24 still not undue experimentation. And these experiments were
25 a significant amount of time, working with animals, to do

1 fusions, to injecting animals, to develop the hybridomas.

2 So those the main thoughts that I wanted to go
3 back to.

4 This is not a plea, Your Honor. This is simply
5 a fact that in a motion for a judgment as a matter of law,
6 Your Honor, it is a heavy burden to take away from what the
7 jury did.

8 And there was a substantial amount of evidence
9 submitted to this jury, including conflicting evidence.
10 There is some waffling on whether there was conflict between
11 the experts on does the target matter? There absolutely
12 was conflict on that.

13 And it does matter because it is informative.
14 It doesn't matter that it is not a claim element per se. It
15 is useful and important information to the person of skill
16 in the art that it can help guide them. And, indeed,
17 indeed, that was information that guided Dr. Sommadossi and
18 Dr. LaColla to this invention in the first place.

19 Thank you, Your Honor.

20 THE COURT: Thank you. Mr. Singer, any last
21 word on this?

22 MR. SINGER: No, Your Honor.

23 THE COURT: All right. Well, we will take a
24 lunch break. I recognize we're running more behind
25 schedule. The arguments have been very helpful to this

1 point. I had indicated we would take an hour for lunch. If
2 you want to come back sooner than that, that's fine by me.

3 Any thoughts by the Idenix side on how long you
4 want to be given?

5 MS. PARKER: We think maybe 45 minutes for us.

6 THE COURT: Okay. Any problems with 45 minutes
7 on the defendants' side?

8 MR. SCHERKENBACH: That's fine, Your Honor.

9 THE COURT: Then whatever 45 minutes is from
10 now, we'll look for you. We will be in recess.

11 (Lunch recess taken.)

12 * * *

13 2:30 P.M. - Afternoon Session

14 THE COURT: Have a seat.

15 I hope you all had some lunch. I think we're
16 ready to move on. Is there anything to add?

17 All right. Let's move on to the next issue,
18 please.

19 MR. WARDEN: Good afternoon, Your Honor. Joseph
20 Warden on behalf of Gilead. I will be addressing Gilead's
21 JMOL on damages.

22 May I approach with some slides, Your Honor?

23 THE COURT: Yes.

24 (Slides passed forward.)

25 MR. WARDEN: Before I get into the specifics of

1 my argument, Your Honor, I want to start with one high level
2 point.

3 Idenix in this case obtained a \$2 and-a-half
4 billion damages award which is the largest patent damages
5 award in U.S. history and, in support of that award, was
6 given the testimony of Mr. Andrew Carter, Idenix's damages
7 expert.

8 And Mr. Carter here on this slide acknowledges
9 that Idenix did not invent the cure for HCV. That cure came
10 from Gilead's work.

11 Even assuming Idenix's patent is valid, it
12 contributed one piece, methyl up. And methyl up, by itself,
13 doesn't cure HCV. And for purposes of damages, methyl up
14 does not bring any commercial success.

15 Now, we heard from Mr. Griffith talk about the
16 important of methyl up and how 11 of 12 compounds that have
17 gone through clinical trials are methyl up compounds, but
18 what Mr. Griffith didn't say is only one of those compounds
19 has ever been successful, sofosbuvir, as a result of
20 Pharmasset and Gilead's work and in particular, the
21 contribution of fluoro down and the prodrug.

22 And the other striking thing we heard this
23 morning on that point is the admission first from Dr.
24 Sommadossi that the '597 patent does not disclose fluoro
25 down, and Mr. Griffith agreed with that and essentially

1 argued it doesn't, it doesn't matter. They don't have to
2 disclose fluoro down.

3 And while Mr. Singer explained all the reasons
4 why we disagree, even assuming that is true for purposes of
5 validity, the question for damages is different, and that
6 is what is the value of this patent? In particular, what is
7 the value of a patent that does not disclose the only
8 embodiment that has ever had any commercial success?

9 And with that, Your Honor, I want to get into
10 the specifics of what went wrong with Idenix's damages
11 presentation.

12 And at a high level, there were two problems:

13 The first of which is that Mr. Carter failed
14 to perform the required license comparability analysis.

15 And the second I'll get to later is that he
16 failed to perform the required apportionment analysis.

17 And just to reorient the Court:

18 Mr. Carter's entire damages case was premised
19 on comparison to two past licenses: one between Merck and
20 Roche and one between the Pharmasset and Roche, and using
21 those two licenses is where he pulled his 10 percent rate
22 from.

23 The Federal Circuit has explained that if you
24 are going to do that, you have to account for the
25 differences between your past licenses and your hypothetical

1 license. And Mr. Carter failed to do that in a number of
2 important respects.

3 And I'm not actually going to take the time
4 today to go through every one of these four. They're all
5 talked about in our briefs, and we still stand by all of
6 them. I want to focus on the first and the last because
7 those are the most important here: the impact of portfolio
8 licenses or the number of patents and the impact of the
9 nonpatent assets that were licensed.

10 First is the differences in the number of
11 licensed patents.

12 Here, Your Honor, are excerpts from both the
13 patents or, excuse me, both of the licenses that Mr. Carter
14 relied on showing that both of them gave Roche license or
15 rights to an entire portfolio of patents, not a single patent.

16 And the Federal Circuit in, and this Court, have
17 both explained that portfolio licenses are not comparable to
18 single patent licenses.

19 In *Lucent*, the Federal Circuit, said, A
20 reasonable juror could only conclude that they were vastly
21 different.

22 In *AVM Technologies*, Judge Andrews said, A
23 patentee cannot even argue they are comparable.

24 And that doesn't, Your Honor, mean that a
25 plaintiff can't ever rely on a portfolio license. Judge

1 Andrews, in another case, *Inventio*, explains how and when
2 you can use a portfolio license as part of a comparability
3 analysis.

4 In *Inventio*, Judge Andrews allowed the use of
5 that license, the portfolio license only because the expert
6 took into account the need to make a significant downward
7 adjustment to the royalty rate. The expert didn't just
8 extract a rate from the portfolio license. If Mr. Carter
9 wanted to use portfolio licenses, that is what he was
10 required to do.

11 Let's look at what he actually did do.

12 Mr. Carter testified that the number of patents
13 didn't matter. That it didn't affect his rate.

14 That is problematic for a number of reasons.
15 The main one being it contradicts the law in *Lucent*, in
16 *AVM Technologies*, and in *Inventio* which say, no, portfolio
17 licenses and single patent licenses are very different and
18 you can't compare the one to the other without making a
19 significant downward adjustment.

20 And, Your Honor, this case actually provides a
21 really good example of why portfolio licenses and single
22 patent licenses are so different and can't be treated as
23 though they're the same.

24 Roche, in its two licenses, got the right not
25 just with a single patent but protection from the future of

1 any other patents being asserted against them. So Roche
2 would never have to face the situation where Merck came back
3 a year later and said, hey, we've got another patent we
4 think covers your product. Now you need to take a license
5 to that one and wouldn't have to serially defend it from
6 patents from Merck or Merck's affiliates.

7 Gilead didn't get that. Gilead is getting a
8 license to one patent. And if Gilead were getting what
9 Roche got, Gilead wouldn't find itself in the situation of
10 having to serially defend itself against the patents of
11 Idenix and its affiliates. It wouldn't be defending this
12 case in this court. It wouldn't be defending against
13 Merck's patents in California. It wouldn't be in front of
14 the Federal Circuit still fighting about the '600 patent.
15 And it wouldn't have to worry that a year from now, Idenix
16 might identify another patent that it thinks the covers
17 sofosbuvir and assert that against Gilead.

18 Simply put, Mr. Carter is charging Gilead the
19 price for a portfolio license but Gilead is not getting
20 portfolio protections. The case law says that is not a
21 comparison Mr. Carter was even allowed to make.

22 THE COURT: Are you saying that an expert cannot
23 opine that the number of patents being licensed does not
24 matter?

25 MR. WARDEN: I am saying that under the case

1 we cited, he can't say it doesn't matter. There might in
2 theory be a situation where he might offer an explanation
3 for why a single patent license could have the same rate as
4 a multiple patent license under some circumstances, but he
5 has to address it. He has to talk about the difference.

6 And he said I can disregard the difference. He
7 says the number of patents doesn't make a difference in the
8 rate. That is not allowed.

9 What he needs to do, as *Inventio* says, is to,
10 well, in that case at least, make a significant downward
11 adjustment to the royalty rate but critically to account
12 for the vastly different bundle of rights conferred and not
13 simply extract a rate from the portfolio license.

14 THE COURT: Are you saying the law requires an
15 expert to opine that the value of a license to a smaller
16 number of patents is per se less valuable than to a
17 portfolio or a license to a larger number of patents?

18 MR. WARDEN: I think the law does require an
19 expert to opine that a value of a portfolio license is
20 not the same as the value of a single license. I think *AVM*
21 *Technologies* says that extremely clearly:

22 "A patentee may not argue that prior licenses
23 granting rights to entire portfolios of patents are
24 comparable to a license that the parties would have
25 negotiated for a single asserted patent."

1 I think that is a clear statement of law, also
2 consistent with what the Federal Circuit said in Lucent.
3 That error, by itself, renders Mr. Carter's damages analysis
4 legally unsupportable.

5 There are several other problems with Mr.
6 Carter's license comparability analysis. And in the
7 interest of time, Your Honor, I'm not going to go through
8 all of them.

9 The next one, the difference in timing and risk
10 as well as technological comparability. We have covered
11 these in our brief. We stand by what we said in our briefs.

12 But I want to again focus on the other part of
13 the comparability analysis that I think is the biggest
14 problem here, and that is Mr. Carter's failure to account
15 for nonpatent assets. And this relates really to the
16 Pharmasset/Roche agreement.

17 And the first thing I highlight, Your Honor, is
18 this Pharmasset/Roche agreement is not a license agreement.
19 It is entitled a Collaboration Agreement. The reason it is
20 entitled a Collaboration Agreement because it covered a lot
21 of things and an patent license was only one of many parts.

22 And, critically, one of the things that it
23 covered was the actual PSI 6130 compound. Pharmasset didn't
24 just give Roche patent rights, Pharmasset gave Roche PSI
25 6130, gave them an exclusive license to develop PSI 6130.

1 They gave them samples. They told them how to make it.

2 They gave them anything that was necessary or useful for the
3 manufacture, development, or commercialization of it.

4 They gave Roche everything that the '517
5 patent doesn't give: actual directions on how to make this
6 compound, the actual physical compound.

7 And here is what Mr. Carter had to say about
8 that -- six words.

9 In talking about that patent or that license, he
10 mentions in passing it was for the 6130 drug and the related
11 patents. And then he never talks about this point again.
12 He never tells the jury how that impacts his analysis. He
13 never adjusts the rate for that license to account for the
14 fact Pharmasset wasn't just getting a patent but was given
15 the key compound they were working on. That never affects
16 his analysis.

17 And under far less egregious circumstances, the
18 Federal Circuit has set aside damages award. In ResQNet,
19 the Federal Circuit set aside a damages award that was based
20 on licenses that included non-patents, like "finished
21 products, training, maintenance, and marketing."

22 And in Trell, which was relied on by the Court
23 in ResQNet, the Federal Circuit set aside a damages award
24 that was based on a patent or on a license that actually
25 covered the patent-in-suit but also conveyed other rights

1 that were more broad than just the patent-in-suit. And the
2 Federal Circuit said you can't just pluck a rate out of that
3 license when it covers more than just the patent-in-suit.
4 And it set aside the damages verdict.

5 Those two comparability points I think are the
6 most egregious, Your Honor. I'm happy to address the other
7 comparability issues if the Court has questions before I
8 move on to the apportionment issue.

9 THE COURT: The only question is when you
10 suggest that Carter failed to address things, what I'm
11 hearing you say is that while he referenced them, while
12 he was made aware of them, perhaps even on your own
13 cross-examination, you don't like the answers he gave and
14 you think that they are inadequate in some instances under
15 the law. You don't mean to say he was, as far as the jury
16 was concerned, ignorant of factors that you are pointing to,
17 do you?

18 MR. WARDEN: I don't mean Mr. Carter was ignorant.
19 What I mean is that Mr. Carter I think intentionally
20 disregarded factors that as a matter of law he was required
21 to take into account and make adjustments for.

22 THE COURT: But by disregard, do you mean there
23 is nothing in the record where Mr. Carter says anything
24 about these factors?

25 MR. WARDEN: So with respect to the 6130, the

1 fact that the Pharmasset and Roche agreement included 6130,
2 he says right here, it was for the 6130 drug.

3 THE COURT: And the related patents.

4 MR. WARDEN: And related patents, but then he is
5 focusing on the fact it is a patent license. He never talks
6 to the jury at all about how the fact that it also covered
7 this drug impacted the rate in that Pharmasset/Roche license,
8 and he never adjusts the rate downwards in his hypothetical
9 license to account for the fact that Gilead was not getting a
10 complete finished compound from Idenix the way that Roche was
11 getting it from Pharmasset.

12 That is something that he was not allowed to do.
13 The Federal Circuit had said that. You can't just take a
14 rate from a license that gives patent rights and a whole
15 bunch of other stuff and then use that same rate in your
16 hypothetical license that only gives patent rights. That is
17 exactly what Mr. Carter has done here. As a matter of law,
18 he was not allowed to do that.

19 THE COURT: Okay. You can move on if you wish.

20 MR. WARDEN: So the second issue is Mr. Carter's
21 failure to satisfy the apportionment requirement.

22 This is the same slide that I showed at the
23 beginning, Your Honor, that Mr. Carter is acknowledging
24 Idenix is only contributing a piece of sofosbuvir, that is
25 the methyl up, whereas Gilead is contributing the other two,

1 or at least two other pieces, fluoro down and the prodrug.

2 Here, Idenix's counsel in opening statement
3 acknowledged the same thing. And this is just a graphic
4 sort of showing that how you can divide it up into at least
5 three key pieces, only one of which was the contribution of
6 Idenix's patent.

7 And there is a fair amount of briefing, Your
8 Honor, on the question of whether under these circumstances
9 the Entire Market Value Rule comes into play. We stand on
10 that point by what we said in our briefing. We think it
11 does. We think Idenix is required to satisfy it.

12 I'm not actually going to talk about that now
13 because ultimately it doesn't really matter, and the reason
14 it doesn't matter is because in *AstraZeneca*, the Federal
15 Circuit explained that even if the Entire Market Value Rule
16 doesn't apply, there is still a related inquiry that has to
17 be done which is substantially same kind of analysis.

18 What *AstraZeneca* said is where you have a drug
19 that covers, or a patent that covers a product, a drug as a
20 whole, but where the patentee only invented one element of
21 what is claimed and the other elements were not invented by
22 the patentee, you actually have to do an apportionment,
23 where you compare the value of the element that the patentee
24 invented to the value of the elements it didn't invent. And
25 I prepared some graphics to show how this played out in

1 *AstraZeneca*. In *AstraZeneca*, the drug was omeprazole. It
2 had three elements, a core, a subcoating and enteric
3 coating. What *AstraZeneca*'s invention was, that that
4 combination, they didn't invent the actual individual
5 elements, but they figured out if you arrange these elements
6 in this particular way, it has benefits. They invented the
7 recipe, not the ingredients.

8 And what *AstraZeneca* said is, well, what we
9 have to do is we have to compare the value of *AstraZeneca*'s
10 invention, which is the combination, to the value of the
11 other elements that they didn't invent standing alone. And
12 in that case, the Court concluded, well, here, *AstraZeneca*'s
13 contribution, the recipe is actually what drives the value
14 for this product, and so the Court allowed use of an
15 unapportioned royalty base.

16 That same analysis needs to be done with respect
17 to sofosbuvir. Sofosbuvir has at least three elements,
18 methyl up, fluoro down and a prodrug. Idenix invented only
19 one of those elements, the methyl up piece, and under
20 *AstraZeneca*'s analysis, the other pieces, fluoro down and
21 the prodrug, are other elements.

22 Under *AstraZeneca*'s analysis, Mr. Carter was
23 required to do an apportionment analysis between the value
24 of Idenix's invention, methyl up, and the value of the other
25 elements that Idenix didn't invent, including fluoro down

1 and the prodrug. He didn't do it. And I just want to make
2 clear in case we hear from Idenix that, you know, he did do
3 it somehow in his apportionment of the royalty rate, which
4 is not true, but, more importantly, as a matter of law, it
5 has to be done on the royalty base. Both *Laser Dynamics* and
6 *Uniloc* talk about the fact how this kind of apportionment
7 has to be done on a base, not a rate, because the use of an
8 unapportioned royalty base can unfairly skew the damages
9 award high when the jury sees it.

10 So Mr. Carter was required to apportion the
11 base. He didn't. This is a second independent reason why
12 Mr. Carter's damages analysis is insufficient, and why there
13 is no legally sufficient evidentiary basis for Idenix's
14 damages award.

15 The last point I conclude on, Your Honor, is
16 the remedy, so to speak. We've asked the Court to grant
17 judgment as a matter of law as well as a remittitur. In
18 this case, while Idenix did not present a legally sufficient
19 evidentiary basis for its damages award, there was a
20 sufficient evidentiary basis put in by Dr. Putnam for
21 damages of no more than \$380 million, and what this Court
22 and the Federal Circuit have explained is that where there's
23 no support for a jury's award, this Court can remit it down
24 to the maximum amount that is supported by the evidence.
25 In this case, that's \$380 million, and that's what we would

1 ask the Court to order as the appropriate damages in this
2 case.

3 THE COURT: If I do think that there was a
4 legally admissible basis for Dr. Carter's analysis, is there
5 any other basis on which you are entitled to relief with
6 respect to damages?

7 MR. WARDEN: The only thing we've moved on is
8 Mr. Carter's analysis, which was the entire basis for
9 Idenix's damages award.

10 THE COURT: Okay. Thank you.

11 Ms. Swize?

12 MS. SWIZE: Good afternoon, Your Honor.

13 THE COURT: Good afternoon.

14 MS. SWIZE: May it please the Court, I do have
15 some slides that I'm not going to go through in its
16 entirety, but if I may hand them up?

17 THE COURT: You may, sure.

18 (Ms. Swize handed slides to the Court.)

19 MS. SWIZE: Your Honor, a jury had substantial
20 evidence to adopt Mr. Carter's royalty analysis, which it
21 adopted in its entirety, and I'm just going to jump right
22 into the complaints that Gilead has raised, starting with
23 its license comparability challenge.

24 I'm going to go by very quickly the basis of
25 Mr. Carter's analysis, which was a license comparability

1 analysis. He analyzed the parties. He compared them to
2 Idenix and Gilead and he looked at the royalty rates. He
3 also supplemented his opinion with Georgia-Pacific factors.
4 He did address Gilead's complaint, which I will get to, and
5 he opined on the ten percent on net sales.

6 So let's go to the first of Gilead's challenges
7 on the number of patents that were covered in the comparable
8 licenses.

9 So the first point is that these are issues that
10 the jury could weigh. The Federal Circuit has been very
11 clear that on the complaints that Gilead is raising, those
12 are issues about weight for the jury to decide, the degree
13 of comparability, and whether and how the expert has
14 controlled for different variables, because obviously we're
15 talking about not an apples-to-apples comparison, but an
16 apples-to-oranges comparability. The Federal Circuit does
17 not require identity.

18 Then we go to the first point on the number of
19 patents in the licenses. This goes to weight. It was the
20 jury's decision to decide how much weight to give this. I
21 heard a suggestion, this was maybe something in theory where
22 an expert could rely on a license with a different number of
23 patents than the patents in the hypothetical negotiations.
24 We don't have just something theoretical here. We have a
25 reasoned analysis, because this issue was presented to the

1 jury.

2 And Mr. Carter didn't just disregard it because
3 he ignored it. He said, the parties' comparable licenses do
4 disregard the number of patents. They have the same royalty
5 rate regardless of the number of patents that issued or
6 expire, come in or out. So he acknowledged it and said it
7 wouldn't matter in this kind of negotiation in this industry
8 where Idenix and Gilead would be coming to the table as
9 well.

10 On the other assets, this was also presented to
11 the jury. Mr. Warden suggested that it wasn't, and he said
12 in his testimony or his presentation that Mr. Carter said
13 about six words on this. That's not true. That's not
14 accurate. Mr. Carter was cross-examined extensively by
15 Gilead. It was exactly what the Federal Circuit said in
16 Active Video. That's the best way to assess comparability,
17 have the expert examined on it and cross-examined on it.
18 And Gilead's counsel I don't think mentioned the other
19 license that Mr. Carter relied on, which is the Merck-Roche
20 license. And on there, in terms of the other assets that
21 were covered by other agreements in that package, there was
22 evidence in the record, and Dr. Putnam, Gilead's expert, was
23 asked about this, where the rates would have been higher if
24 those other assets had not been included. In other words,
25 those were accounted for, and for both of the licenses that

1 Mr. Carter used, they used a range, but Mr. Carter did
2 adjust, and he adopted at the low end of both of those
3 accounting differences.

4 I will turn to Gilead's argument on the royalty
5 base and whether it was appropriate to use sofosbuvir. It
6 was. Your Honor may remember, this was an issue that was
7 before the Court on the *Daubert* motion that Gilead brought,
8 and Your Honor said that our expert, with respect to damages
9 and the entire market value rule, gives a reasonable,
10 reliable opinion, and that the patented feature may not
11 under the circumstances be segregated out, and the patented
12 feature may be found to drive demand, a reasonable
13 valuation. The jury doesn't have to agree. They could
14 challenge it and the jury could accept it, and they did
15 accept it here.

16 And I have five points on this, and I will be
17 brief.

18 First, with respect to *AstraZeneca*, I think that
19 answers our case entirely, because while the Federal Circuit
20 did not say it's a per se rule in the pharmaceutical
21 context, there is something about this context that really
22 does not fit. You can't really divide it up like electronic
23 components where this rule usually arises.

24 And with respect to our case, we are like
25 *AstraZeneca*. Our claims do not cover methyl up. That's not

1 our invention. Our invention are ribonucleoside, a class of
2 ribonucleosides that include a prodrug at the '5 position,
3 the fluoro at the 2' down position. That's all part of our
4 claim so we're exactly like AstraZeneca in that respect.
5 But in our case we have even more than AstraZeneca. We have
6 the record in this case, where the entire trial the jury
7 heard about the entire molecule being an appropriate base.
8 The two licenses that Mr. Carter used did the same thing.
9 And we did not have any dispute from Gilead's expert. There
10 was no offer by Dr. Putnam to divide sofosbuvir up the way
11 the diagram presented today did because somehow it separated
12 out. Dr. Putnam did not dispute this. He offered no
13 alternative view. In fact, he essentially endorsed it when
14 he converted one of the licenses into a lump sum using net
15 sales of the royalty base.

16 And my final point here is that this really is
17 different than the electronics context, which is where
18 Gilead's cases arise. So in short, the jury was entitled to
19 adopt our damages theory and award a reasonable royalty to
20 compensate for the infringement of ten percent on net sales.

21 If the Court has no questions?

22 THE COURT: No. Thank you.

23 MS. SWIZE: Thank you.

24 MR. WARDEN: I will just touch on a few
25 additional points, Your Honor.

1 First, I just want to make clear that we are not
2 arguing that the licenses that Mr. Carter relied on were
3 inadmissible. Counsel for Idenix made some suggestion that
4 the issues we talked about go to weight and not
5 admissibility and we're not disputing that. What we're
6 saying is even if they were admissible, the Federal Circuit
7 makes clear you can't just pluck the rate out of those
8 licenses. You have to adjust that rate to account for
9 differences. And that is where Mr. Carter failed, was to
10 adjust the rate to account for differences.

11 So one of the things that counsel said is that
12 he did give testimony about how licenses to single patents,
13 it is appropriate to use the same rate of a license to
14 portfolio. That's not actually what he said. Here's the
15 testimony she's referring to, which I don't believe was
16 shown during Idenix's presentation.

17 What Mr. Carter says is that when you've already
18 got a rate in a license, once that rate has been agreed to,
19 you don't adjust that rate every time a new patent expires
20 or a new patent in the portfolio issues. That rate within
21 the patent stays the same. We're not disputing that.

22 The question is: How do you set that rate in
23 the first place? And is the rate the same for single
24 patent licenses as for portfolios? And the Federal Circuit
25 has clearly answered that question. A patentee can't

1 even argue that they're the same. That's what Judge Andrews
2 said in *AVM Technologies*. In *Lucent*, the Federal Circuit
3 said, a reasonable juror could only conclude that they're
4 vastly different. And, again, Judge Andrews said, if you
5 want to use them, this is how you do it. You can't just
6 extract the rate out. You have to adjust it downwards.
7 That's where Mr. Carter failed, was to make the necessary
8 adjustments.

9 I want to just now go to the apportionment and
10 *AstraZeneca* point. What I did not hear counsel for Idenix
11 address was this other inquiry. We understand there's a
12 disagreement between the parties about whether the EMVR
13 comes into play in *AstraZeneca*, but we're setting that
14 aside, maintain what we said in our papers about that.
15 *AstraZeneca* still says that you have to do this related
16 inquiry, and especially when the patent covers the
17 infringing product as a whole. Idenix is arguing our patent
18 covers sofosbuvir as a whole. Therefore, we don't have to
19 apportion, except that's exactly when *AstraZeneca* says this
20 related inquiry comes into play. And what you have to do is
21 you have to examine the value of the elements that they
22 contributed to that whole, in this case, that's methyl up,
23 and you have to compare that to the value of the elements
24 that they didn't contribute.

25 And we heard concession from Mr. Griffith this

1 morning that Idenix didn't contribute fluoro down. Dr.
2 Sommadossi said the same thing. Under AstraZeneca's related
3 inquiry, they were required to do an apportionment analysis
4 here.

5 And I want to point out what was said during the
6 Daubert hearing on our motion for the entire market value.
7 What the Court said was that it's possible that Mr. Carter
8 at trial will be able to show that the patented features are
9 the basis of customer demand. Maybe the jury won't accept
10 it, but it's possible he'll be able to show it and he's going
11 to be allowed to go forward with that.

12 But Mr. Carter didn't even try to show that at
13 trial. Instead, at trial, Mr. Carter changed tactics. He
14 said, I don't even need to deal with apportionment. I'm
15 using licenses instead. And he readily acknowledged that
16 elements other than what Idenix invented contributed to the
17 value and demand for sofosbuvir. He said, Idenix is
18 bringing its patent to the table, but Gilead is bringing
19 everything else. Gilead has to provide the drug that cures
20 you. Gilead is the prodrug that gets the curative drug into
21 the body. Mr. Carter did not try to show that the patented
22 feature, methyl up, was the basis for customer demand.

23 I don't have any other issues that I want to
24 address unless the Court has additional questions.

25 THE COURT: Yes. For damages purposes, I have

1 to assume that the patent is valid. Correct?

2 MR. WARDEN: Yes.

3 THE COURT: So I have to assume that the patent
4 is enabled. Correct?

5 MR. WARDEN: Yes.

6 THE COURT: And so if it's enabled, their view
7 is that it enabled the embodiment, including the accused
8 ones, of course. Right?

9 MR. WARDEN: I'm not actually sure that is their
10 view. What I heard Mr. Griffith saying during his argument
11 is we don't need to enable the infringing product. I wrote
12 that down verbatim. I think their view is they don't have
13 to enable sofosbuvir. And more critically, even if it's
14 enabled from a legal standpoint, the question on damages, is
15 what is the value it contributes? How much of sofosbuvir
16 does it get you? And there, no one is disputing it gets you
17 one piece. It gets you methyl. That the work of getting
18 fluoro, the work of getting the prodrug came from Mr. Clark
19 and it came from Mr. Sofia, and Idenix doesn't get credit
20 for that for purposes of damages, when we're trying to
21 divide up how to give credit for the commercial success of
22 sofosbuvir.

23 THE COURT: Okay. Anything else?

24 MR. WARDEN: Nothing else, Your Honor.

25 THE COURT: All right. What's next?

1 MS. PARKER: Good afternoon, Your Honor.

2 THE COURT: Good afternoon.

3 MS. PARKER: If I may have just one moment, and
4 I have a hand-up, if I may?

5 THE COURT: Sure.

6 (Ms. Parker handed slides to the Court.)

7 MS. PARKER: Your Honor, my motion that I'm
8 going to argue is our motion for enhanced damages, and I
9 know Your Honor is very familiar with the case law and the
10 *Read* factors and all of that, so I'm going to focus more on
11 the facts and circumstances here that support enhancement,
12 and we start, of course of course, with the jury verdict.

13 As your Honor knows, the jury checked "yes" to
14 that first question on the verdict form. There's more than
15 just that. Under *Halo*, one of the primary factors is all
16 of this bad conduct warranting enhanced damages, which is
17 described specifically as characteristics of a pirate, and
18 believe it or not, in this case, the testimony from one of
19 the Pharmasset scientists actually used that word. His
20 trial testimony that was played to the jury was that this
21 was a piracy that would go on in Pharmasset at that point in
22 time.

23 Your Honor is familiar with the *Read* factors.
24 The biggest issue here in any case where there's an
25 enhancement of damages is to look at the facts and

1 circumstances of the particular case. The one thing that
2 Your Honor should respectfully consider is this pre-patent
3 misconduct. That's an argument that they make in their
4 brief. There are a number of cases, including *Read* itself,
5 that says you need to look at the pre-patent conduct as
6 well. And Your Honor has addressed this issue before trial
7 when Your Honor allowed this testimony in.

8 So what was all of that? Well, let's start with
9 Dr. Schinazi. Dr. Schinazi was an insider at Idenix. He
10 admitted he had a large amount of confidential information
11 from Idenix. He knew he was supposed to keep that
12 information confidential within Idenix and not to be shared
13 outside of that company. He had a position of trust. He
14 had a duty of loyalty. He signed documents, including this,
15 as one example, this confidentiality agreement here on the
16 screen. He admitted in his sworn deposition testimony that
17 was played to the jury that he had this confidential
18 information that Idenix was developing compounds. He also
19 testified at his deposition that he obtained the information
20 about 2' methyl and its importance from Idenix. And he
21 admitted that when he got that information, he knew it was
22 not public knowledge. He knew that Idenix had filed a
23 patent, and he knew that that information was covered by the
24 patent.

25 THE COURT: Let me stop you there. The jury

1 found willfulness, as you pointed out. Let's assume for the
2 sake of argument that I agree there's substantial evidence
3 to support that. What if I subjectively don't believe that
4 that is what happened? In making the enhancement decision,
5 do I have to defer to the jury's finding or can I rely on my
6 own views?

7 MS. PARKER: Your Honor, I would respectfully
8 submit that Your Honor is bound by the jury finding of
9 willfulness here.

10 Now --

11 THE COURT: Bound to believe that there was
12 willfulness, but then the enhancement decision is
13 discretionary.

14 MS. PARKER: Exactly. Exactly. It's just the
15 first step. It's a big part of it. It's a big first step.
16 But just because the jury found willfulness does not mean
17 automatically enhancement. Enhancement is in your Honor's
18 discretion based on a number of factors.

19 THE COURT: In enhancing my discretion, is there
20 no role for the judge to have his or her own views based on
21 reviewing the evidence?

22 MS. PARKER: Is your question, respectfully --
23 is your question only about the willfulness part or all of
24 the factors?

25 THE COURT: Not the willfulness. We're really

1 focused on enhancement for the moment. I mean, another way
2 to put it is, of course, the jury was entitled to make no
3 credibility determination. We can infer what they were
4 based on their verdict. What if I, having looked at the
5 witnesses, had a different view of somebody's credibility?
6 Can I consider that in making the discretionary enhancement
7 decision or is that off the table?

8 MS. PARKER: Are you asking about a different
9 view of credibility on the issue of willfulness or other
10 issues that are relevant to enhancement?

11 THE COURT: Let's assume that it's an issue
12 relevant to enhancement.

13 MS. PARKER: If it's an issue relevant to
14 enhancement other than the willfulness, I think that's
15 entirely within your Honor's discretion. I do respectfully
16 believe that once the jury found willfulness, once the jury
17 made that determination, I believe that does bind, so to
18 speak, the Court as to that aspect of the entire analysis
19 that goes into enhancement. And the jury found it. The
20 jury has spoken, and the fact that the jury found
21 willfulness is such an important factor in a number of these
22 cases. The deference to the jury of, okay, the jury has
23 already found willfulness is like the first major step.

24 I honestly don't think that I've seen any case
25 where a Court has gone back and said, well, I'm not

1 going to accept that jury's finding. I think all the cases,
2 to my memory, I think all the cases that I've looked at,
3 and we've looked at a lot of them, accept the jury's finding
4 as the first step and then go on and look at all the
5 different, all the other facts and circumstances that are to
6 be considered as far as the discretion in determining
7 enhancement overall.

8 May I -- should I continue?

9 THE COURT: Sure.

10 MS. PARKER: Okay. So the next step is Dr.
11 Schinazi gets this information that he learned from Idenix,
12 and he admitted, and here's just an e-mail from him. He
13 admitted that he violated his confidentiality agreement and
14 provided that information to his own scientist. He breached
15 his duty of loyalty. He breached that trust that he had
16 with Idenix and gave that information to, to begin with, Dr.
17 Watanabe. He admitted that. He said Dr. Watanabe must have
18 turned around and given it to other scientists and that's
19 how all of this started.

20 Dr. Schinazi also admitted in his deposition
21 that he knew that this work that Dr. Hassan was doing, he
22 specifically references Dr. Hassan, he knew those particular
23 compounds belonged to Idenix.

24 And that is what led up to this e-mail that
25 Dr. Stuyver, who was a top scientist at the time, sent to

1 Dr. Schinazi. This is the one, Your Honor will recall, from
2 trial where he said I had to take a cold shower. He said
3 when I found out about this, when I found out about this
4 Idenix patent, I knew there was nothing left of the work we
5 had done. He said we're just going to have to take a
6 license. He says to Dr. Schinazi: What do you think about
7 the fact that all this work we have been doing may
8 eventually might end up belonging to Idenix?

9 Then, of course, we talked about several times
10 today Jeremy Clark goes in and talks to Dr. Otto about the
11 work he is doing and he takes the patent with him.

12 Again, knowledge that they knew about the
13 patent.

14 And then that brings us to some of the internal
15 meeting minutes that we obtained during discovery in the case.

16 There are a number of them, here is just one
17 example, where they are talking internally about the work
18 they're doing. This is not for any reason other than their
19 own recordings of the work that the chemistry department is
20 doing. And they say, over and over and over, they're
21 working on Idenix.

22 Here is another example. All of this is in
23 evidence, of course.

24 THE COURT: Right, it is. So I don't think you
25 need to go over it again.

1 But here is another I guess way of asking the
2 question. You had your spin on all of this evidence. They
3 had their spin on it. It seems pretty clear which side the
4 jury agreed with. But, again, if I don't buy that story,
5 the one that the jury bought, are you saying for purposes
6 of deciding whether to exercise my discretion to enhance
7 damages, I have to buy the story?

8 MS. PARKER: No, Your Honor. Let me see if I
9 can try this again.

10 What I'm saying is I think Your Honor cannot
11 reject the jury's finding of willfulness. The jury has
12 decided willfulness.

13 THE COURT: Okay.

14 MS. PARKER: But there is more.

15 THE COURT: That "at least" means I need to ask
16 the enhancement question; right?

17 MS. PARKER: Right.

18 THE COURT: If I reject willfulness, then I
19 don't even have to get there.

20 MS. PARKER: Exactly.

21 THE COURT: But does it mean more that I have to
22 ask the question of enhancement?

23 MS. PARKER: Again, I believe it does. Because
24 I have not -- it doesn't mean automatically that we get
25 enhancement, though. It means, though, it is one factor

1 that I believe Your Honor must consider in looking at all of
2 the facts and circumstances under *Read*.

3 And, again, I haven't seen a single case where a
4 Judge has not accepted that finding of willfulness and not
5 discussed that finding of willfulness in reviewing the *Read*
6 factors.

7 THE COURT: So one factor that I want to
8 understand your view of is the size of the damages verdict.

9 I think your position is it really doesn't
10 matter, but is that how I should view it? That even though
11 we're talking about very large numbers here and increasing
12 them would by definition be very large, that is not a
13 consideration that should get any weight in this case?

14 MS. PARKER: Your Honor, that is exactly what
15 the law is. There is no aspect -- and actually Your Honor
16 wrote this I think in the *Power Integrations* case. There is
17 no aspect of punitive damages to the jury's award. The
18 jury's award is entirely compensatory and no aspect of
19 that -- it was not Your Honor's case, it was *Pall Corporation*.

20 The compensatory verdict is not to punish,
21 it is entirely to make Idenix whole. So there has been no
22 punishment at all of Gilead so far.

23 So it's kind of apples and oranges. What
24 happened so far is an entirely different issue than what is
25 before the Court in the motion for enhancement.

THE COURT: All right. So then when we talk about punishment, why is it not very relevant that here, the combined efforts, whether they were intentionally combined or not, led to a cure of a very serious disease here? Why should the Court want to punish that?

MS. PARKER: Your Honor, I think that has been addressed very well in the *Johns Hopkins* case in the District Court decision there. That was a case involving a cure treatment for leukemia which is again a very serious illness that can cause death in patients.

And, same situation, the defendant there said, well, this is a treatment that's used to help people and cure people and save lives. And the Court there had a very good couple of paragraphs saying, well, yes, we're not disputing that. You know, that is part of it. But you also have to take into account the rest of the situation. You have to take into account the bad conduct, the misconduct that happened along with it.

So there is no exception to the statute for treatment that is successful here. And I think that Johns Hopkins decision, which was from 1997 from this Court, I think it's instructive in terms of how Your Honor should consider that. It's just it's not, it doesn't cure the problem.

THE COURT: But you're not arguing that I

1 shouldn't be cognizant of the fact that end result of
2 whatever the defendant did, good or bad, turned out to be
3 a cure for a very serious disease?

4 MS. PARKER: I think that is one of the facts
5 and circumstances of the case. And I think it is entirely
6 appropriate for Your Honor to rely on it as well as others.

7 What I am saying, though, is that does not
8 negate, that does not prevent enhancement when there are
9 other factors that are in our favor for enhancement here.

10 THE COURT: So a key theme of the case that you
11 argued was that they took your invention, essentially the
12 2'-methyl up, and they improved it. They made it better.
13 They indisputably did things that you hadn't done to it.

14 If I accept that theme, how do I square that
15 with now turning around and punishing them?

16 MS. PARKER: Well, that was factored into the
17 damages here. That was factored into the compensatory
18 damages. That was factored into the discussion about the
19 damages that we just had with the motion that related to
20 that. That was part of what the jury considered when the
21 jury came back with an award. That is why we asked for
22 10 percent. We didn't ask for 100 percent.

23 You have to remember I think another factor that
24 is very important for the Court to consider. Even after
25 the compensatory damages award here, and even if Your Honor

1 were to treble the damages here, Gilead is still left with
2 billions and billions and billions and billions of dollars
3 from taking our ideas that were covered by this patent and
4 wrongfully using them. So there is more to it than just,
5 oh, well, they did something to help get this to the market.

6 THE COURT: Isn't the taking what you invented
7 and looking at the application and the patent and citing the
8 scientific articles and coming up with a way to improve it,
9 as you yourself argued, isn't that exactly what the patent
10 system is supposed to be encouraging the parties to do?

11 MS. PARKER: The patent system does not
12 encourage anyone to use a position of trust that they have
13 with the company to get inside confidential information,
14 take it outside of the company in violation of their
15 agreements and their duties to that company, turn around,
16 wrongfully give it to their own scientists, for their own
17 scientists to then copy and use and then cover it up.

18 That is a big part of this that we haven't
19 talked about yet. They had a guilty mind. They knew what
20 they were doing was wrong. That is why we had all those
21 documents at trial where they said delete this data and
22 avoid using the word "Idenix." Because they knew what they
23 were doing was wrong.

24 That is misconduct. That is not the kind of
25 corporate citizenship that this Court should sanction. That

1 is exactly the type of corporate misconduct that should be
2 covered by this enhancement motion. That is something that
3 this Court should not sanction. Instead, this Court should
4 punish it, and the Court should award enhanced damages as a
5 deterrent to Gilead and to other companies so that this
6 won't ever happen again, so nobody else will go out there
7 and do this.

8 THE COURT: One of the arguments I think you make
9 in the papers is that there is no actual contemporaneous
10 evidence of a subjective belief that they didn't infringe. I
11 thought that there was some testimony at least from Dr. Otto
12 to that effect when he and Mr. Clark were looking at the
13 application or whatever it was at the time. Is that not
14 evidence of a contemporaneous belief?

15 MS. PARKER: Your Honor, let me ...

16 If we could go to the slide right before that, I
17 believe.

18 So, Your Honor, to answer that question, let me
19 first start: So during discovery, we sent discovery asking
20 if they had any witness, if there was any human being who
21 had a good faith belief. And they did not identify
22 Dr. Otto, they didn't identify anybody. And that is why
23 Your Honor had that hearing last summer, and Your Honor
24 granted our motion to strike the good faith -- their defense
25 of good faith belief of noninfringement. So they didn't

1 even list him before trial.

2 At trial -- if you could go to the next slide,
3 please -- the jury's finding here shows that they rejected
4 that testimony. His testimony, Your Honor, I would
5 respectfully submit is just not credible.

6 Remember he said I'm not even, I'm not even
7 considering all of this about Dr. Schinazi, because Dr.
8 Schinazi was not officially an employee of Pharmasset at
9 the time. While all the other witnesses said he founded the
10 company, it was his baby, he was telling them what to do, he
11 was running the company.

12 But part of Dr. Otto's -- but Dr. Otto admitted
13 he was not even considering any of that when he was giving
14 the testimony about what he thought at the time.

15 And then also remember Jeremy Clark just flat
16 contradicted what he said. Jeremy Clark said, Well, I'm
17 the one working on it. I'm the one that is making this
18 compound. I think back at that time, whether it was in
19 somebody's patent or not was not my concern.

20 So the whole story that Dr. Otto told, first of
21 all, it is not even identified before trial. Your Honor
22 struck that. Then he comes in and says, well, here is my
23 view, but it is not based on Dr. Schinazi at all and
24 intentionally excluding that for that technical reason that
25 maybe he is not an employee.

1 Jeremy Clark says that is not true. I'm the one
2 doing it, and I didn't consider what was in the patent or
3 not.

4 So I respectfully submit that his testimony just
5 is insufficient to form a good faith belief.

6 THE COURT: It did come into evidence, though.

7 MS. PARKER: It is in evidence.

8 THE COURT: And I take it, this is an example
9 of something you would say I think I can't find Dr. Otto
10 credible.

11 MS. PARKER: Your Honor, I would -- that's
12 correct. Your Honor, I would again say for all these
13 different reasons that he wasn't even listed before. He
14 said I'm excluding Schinazi. He said what he testified to
15 is directly contrary to what Jeremy Clark said. I just
16 don't think there is a basis for Your Honor to consider that
17 to be credible within light of the jury's finding.

18 THE COURT: Another argument that was made, I
19 think this one was made against your side, is that no one
20 associated with Idenix ever even alleged that Gilead had
21 basically stolen or acted like a pirate and taken your
22 invention until this lawsuit, which was roughly 2013, I
23 believe, even though Pharmasset had gotten a patent and done
24 a presentation. Isn't that correct on this record?

25 MS. PARKER: Well, a couple of things.

1 One is before this lawsuit, we did not have any
2 of this internal information, these internal documents that
3 we now have. So, no, we did not have the same information
4 back then that we have now.

5 But we did, as soon as we found out that there
6 was actually an infringing product, we filed the lawsuit.
7 Before then, there was no infringing product, so there was
8 nothing to file a lawsuit about.

9 THE COURT: Right. Well, the story at trial was
10 that back in I think 2001, it turns out they were stealing
11 your property. You would have known about that by at least
12 2005 when they got their patent?

13 MS. PARKER: We didn't know the whole story. We
14 didn't know the extent of it. That is the information.
15 That additional part is what came out at trial, came out
16 during discovery. So before the trial, no, we did not know
17 that whole story.

18 Now, I would also like to mention that in looking
19 at all the cases and all, I bet if you went back to all the
20 cases that have been reported where there is enhancement,
21 whether it is from the District Court level or on appeal, I
22 bet you that there are -- you could go back and find out this
23 information. I bet you there are a number of those as well
24 where the plaintiff had information beforehand, and maybe not
25 everything like here but didn't file a lawsuit before when the

1 infringing product came out.

2 That is just not a factor. That is just not
3 relevant here. That just doesn't have anything to do with the
4 situation.

5 When there were infringing products, when we
6 knew they were going to hit the market, we filed a lawsuit.
7 Before that, we didn't know this whole story. So I don't
8 see how that -- I mean I understand, I think I understand
9 Your Honor's question, but I don't see how that that can be
10 a fact that would weigh in against enhancement.

11 THE COURT: Well, I think if I'm permitted to
12 consider whether or not the real world facts are what you
13 maybe persuaded the jury what you think they were, if I'm
14 permitted to evaluate that for myself, if I weigh into my
15 thinking that you would or should have known at least as
16 early as 2005 that some of what you now say is what
17 happened, all that bad stuff about Schinazi and others, that
18 you would or should have known about it in 2005 and yet
19 nobody hears anything about that until 2013.

20 MS. PARKER: There was testimony at trial that
21 a couple of people there knew that they were using the
22 information. Okay? That is in the record. I'm not
23 disputing that.

24 What I am saying, though, they didn't know the
25 whole story. They didn't know the whole story and once they

1 found out, once the infringing products were about to hit
2 the market we filed the lawsuit. And because of those
3 circumstances, I just respectfully submit I don't think that
4 that is information that would be appropriate for Your
5 Honor, respectfully, to use in analyzing the enhancement.

6 THE COURT: We're near the end of your time.
7 Just one other question. It was technically I think raised
8 by their motion. It relates to willfulness, so maybe you
9 will know the answer to it. It has to do with waiver and
10 really whether I should be evaluating if there was
11 sufficient evidence of willfulness.

12 I think this doesn't get argued but gets
13 mentioned towards, in a footnote maybe in their brief, and
14 you all argue at least footnote arguments or things that are
15 just listed and efforts to revive them from a 50(a) motion
16 are waived.

17 Is that something you could address?

18 MS. PARKER: I'm not sure what the argument is
19 in the footnote. What is the ...

20 THE COURT: Basically, it is they are trying to
21 reserve their right to have me decide, for instance, whether
22 there is substantial evidence of willfulness. Your position
23 I think is they have waived their chance to do that.

24 MS. PARKER: Yes, Your Honor. And besides that,
25 we think it would be inappropriate under *Read* and the other

1 cases that have interpreted *Read*.

2 Your Honor, may I add one more thing? I know my
3 time is about up.

4 THE COURT: Sure.

5 MS. PARKER: If I could add one more thing.

6 It is totally up to Your Honor's discretion
7 in terms of whether or not to enhance, and the amount is
8 totally up to Your Honor's discretion as well.

9 But if you step back and just think about what
10 happened here, regardless of when somebody found out or put
11 all that aside, this is a situation where an individual is
12 in a position of trust with a corporation. There is just no
13 question about that. He was in a position of trust and he
14 abused that. He abused it by taking information that he
15 shouldn't have shared. He shared it. He knew what he did
16 was wrong. That is what led to the cover up.

17 That is not behavior that is appropriate for our
18 corporations. It is the exact type of behavior that should
19 be punished. And I respectfully submit Your Honor should
20 send a message of deterrence for Gilead and for other
21 corporations as well. And because of that -- and again, it
22 was totally in Your Honor's discretion. And because of
23 that, we didn't even put this in our brief, because, again,
24 it is up to you.

25 But given all these factors, in case it would be

1 helpful to the Court to hear our position on this, looking
2 at all the cases out there, all the cases that have decided
3 that have awarded enhanced damages, this fits within the
4 cases where it is appropriate to at least double. And this
5 is really bad corporate behavior here. This is something
6 that we should send a message, it should not be allowed.
7 You shouldn't let this happen. We don't want it to happen
8 again. They knew what they were doing. They knew what they
9 were doing and they covered it up.

10 So thank you, Your Honor, for your time. And if
11 you have any other questions, I'm happy to answer them.
12 Otherwise, I'll sit down.

13 THE COURT: Not at this point. You are out of
14 time, but I will give you a couple of times for rebuttal, if
15 you want.

16 MS. PARKER: Thank you, Your Honor.

17 MR. McCANN: May I approach, Your Honor?

18 THE COURT: You may.

19 (Slides passed forward.)

20 MR. McCANN: Good afternoon, Your Honor. I
21 think I'm the last batter today.

22 THE COURT: Good afternoon.

23 MR. McCANN: Doug McCann from Fish & Richardson.
24 I'm going to address the issue of enhancement.

25 Just very briefly on the law, Your Honor. This

1 goes toward some of the questions you were asking about
2 willfulness. I think you understand that there is a
3 willfulness finding here but as the Supreme Court and other
4 courts have told us, willfulness, a finding of willfulness
5 is the entrée into whether the Court will enhance or not.
6 It does not require enhancement. That is within the Court's
7 discretion.

8 As the Federal Circuit said in the remand on *Halo*,
9 willfulness, the finding of willfulness is a factor for you to
10 consider. It is not the factor for you to consider.

11 Your Honor also understands, the cases tell us,
12 that this is about punishment. This is about deterrence.
13 And I was interested to see that counsel sort of ended with
14 a request for doubling, and that's the first we had heard as
15 to what they thought the appropriate punishment here was,
16 and I think that's kind of telling.

17 You know, this was obviously a very significant
18 patent case. You know and you've heard the statements of
19 the attorneys that it's the largest verdict I guess in U.S.
20 history. And I thought it surprising that when the Court is
21 going to punish, the Court is acting at the height of its
22 power when it's going to punish somebody. And I certainly
23 have been as a lawyer in court many times where some party
24 was about to be punished and I never had a situation where
25 you didn't go into it explaining what the appropriate

1 punishment was with detailed reasons as to why that was
2 appropriate in this particular case, and I don't think you
3 have really gotten much guidance from counsel on that point
4 alone.

5 I also think, and this is related to some of the
6 questions that the Court was asking counsel, if you are
7 going to deter and punish, does that make sense here,
8 and who are you punishing? So what I have is a timeline
9 from 2000 to 2013. Your Honor is familiar with a lot of
10 facts, but I've put in a red box. I have on the left side
11 outside the red box Dr. Schinazi and Dr. Watanabe, and then
12 I have in the red box Mr. Clark and Dr. Sofia and Dr.
13 McHutchison.

14 And I think one of the questions the Court
15 should be asking itself when trying to determine whether it
16 should impose any kind of punishment here, is the path of
17 sofosbuvir something that should be deterred? If you think of
18 the evidence in the case, Dr. Otto was the chief scientific
19 officer of the company, and he tells the chemists, I want
20 you to go and look for ideas.

21 And when I'm making my presentation, Your Honor,
22 I don't intend to say things contrary to our JMOL argument.
23 It's really sort of, even crediting a lot of the arguments
24 that Idenix has made, Dr. Otto said, go look for ideas, go
25 find the holes, things that other people are not doing.

1 Jeremy Clark was walking into his office with a
2 Novirio patent. The testimony was, he said, I thought of
3 making a methyl up and fluoro down with all of the four
4 natural bases, and I looked and I don't see that anybody
5 else is doing that. And he specifically has, I believe he
6 testified, and he said Merck patent application and Idenix
7 patent application. He said look here. I don't see that
8 here.

9 And so the question, Your Honor, as you try to
10 decide am I going to impose punishment here, do you want Dr.
11 Otto to say to Mr. Clark or Dr. Otto of the future, well,
12 although I don't see -- you know, I see the halogens, but I
13 don't see fluorine anywhere in the specification. It's
14 possible that a couple years from now, Idenix will get new
15 claims. It's possible about six years after that, a patent.
16 It's possible another nine years after that, a District
17 Court reviewing the record might conclude there wasn't a
18 clear and unmistakable disavowal of fluorine. So it's
19 possible that some day we'd be subject to treble damages, so
20 actually, you'd better go do something else. That is not
21 something that should be deterred.

22 If you consider the issue of enhancement to be
23 this issue of piracy, there are no pirates in that red box.
24 In fact, if they are anything, they are heroes. Dr. Sofia,
25 in fact, received an award, Hero of Chemistry, because of

1 that wonderful thing he did in taking the start that Clark
2 had and turning it into what became sofosbuvir.

3 THE COURT: All right. So, of course, from
4 other punishment contexts you've dealt with, you're familiar
5 with the fruit of the poisonous tree doctrine. Why
6 shouldn't I apply something like that?

7 Assume for the moment that Dr. Schinazi did
8 all the bad things that he was alleged to have done. Why
9 shouldn't I punish and send a message that all the heroes
10 afterwards, good for them, but too late for at least
11 Gilead?

12 MR. McCANN: Well, let's consider Dr. Schinazi
13 to be the pirate in our scenario here. You're not punishing
14 him and you're not punishing the Schinazi of the future.
15 The facts of this case are Dr. Schinazi did what he did.
16 He was a founder of Pharmasset and he owned a lot of
17 Pharmasset stock, and Gilead paid the \$11 billion for
18 Pharmasset and he made a lot of money. I think there's some
19 evidence it is something like \$400 million.

20 No one is going to be, this Court is not going
21 to be, if it sanctions Gilead or enhances Gilead, he's not
22 giving any money back. There's no disincentive to the next
23 Schinazi. All the Court would be doing would is punishing
24 Gilead, taking money away from Gilead that could be used for
25 the next great improvement or the next effort anyway to

1 improve drugs.

2 So I actually don't think a deterrent here would
3 actually have an effect on Schinazi because he's out of the
4 picture. He actually -- it's not in the trial record, Your
5 Honor, but it is in the record before the Court. He was
6 forced out of the company in 2005 because Pharmasset had
7 concerns about him. And Dr. Sofia, you know, said, I
8 wouldn't even have joined Pharmasset if he was there.

9 I guess my point on that is, Pharmasset took
10 corrective action already, and any punishment here only
11 punishes the good work that Pharmasset did and not whatever
12 Dr. Schinazi did in the days when he was involved.

13 THE COURT: Well, I think part of the whole
14 theory of this is, as you said yourself even, the Dr. Ottos
15 of the future, what would we want him to do? If one were to
16 apply something like a fruit of the poisonous tree doctrine,
17 why wouldn't that put Gilead on notice that if you are going
18 to spend \$11 billion? Let's say you'd better be super
19 diligent and make sure that what you are buying isn't itself
20 somehow the fruit of the poisonous tree or be prepared to
21 pay double or triple damages.

22 MR. McCANN: If I was advising Gilead of the
23 future, I would say this drug is a public good and you need
24 to bring it to the market whatever what the risks are on
25 that. I don't know of any -- you know, I just don't see

1 what is the connection to what Dr. Schinazi did and how does
2 that lead to the development of sofosbuvir itself? And let
3 me explain what I mean by that, Your Honor. It's not a
4 theft of trade secrets case. It's not.

5 Dr. Schinazi, according to Idenix, Dr. Schinazi
6 learns that Idenix thinks that 2' methyl up is significant
7 and has activity. That's the gist of what he supposedly
8 tells Dr. Watanabe and that's in 2000 and 2001. It's not
9 the case that Idenix kept that close to the vest for all
10 time. They published it in a patent application. So
11 everything that Schinazi supposedly learned and gave to
12 Pharmasset by November of 2001, that's out there for all of
13 the public to learn from. And again that is exactly why we
14 have patent applications that are published, because we want
15 the public to learn from that.

16 The Supreme Court in *Halo* said something along
17 the lines of, you want, when you are trying to determine
18 whether to enhance or not, you want a balance on the one
19 hand protecting the interests of the patentee, but on the
20 other hand, not discouraging, and the words they used were,
21 imitation, or imitation through refinement that is, in fact,
22 often the heart of the next invention. That's what the
23 Supreme Court said. Again, that's what we have here.

24 If you have Jeremy Clark look at their patent
25 application and say, I see methyl up, fine. I don't see a

1 methyl up and a fluoro down. Let's try that. You want that
2 to happen, Your Honor. You don't want to discourage it.
3 Even if it ultimately proves down the road that they're
4 wrong and they're going to infringe a patent claim and they
5 have to pay compensation, you still want that R&D, that
6 effort to go forward.

7 Now, just very briefly on Dr. Schinazi, a little
8 bit more on him. It was just this allegation that the 2'
9 methyl up is the bedrock of Sovaldi and Harvoni. You
10 already heard some of this, Your Honor, in the earlier
11 presentations.

12 Again, when you are looking at whether to
13 exercise your discretion to enhance, what is the importance
14 of this 2' methyl up information that's published in
15 Idenix's patent application and is out there for the world
16 to benefit from?

17 You heard Mr. Griffith talk about the 12
18 companies that were pursuing compounds, all that had the 2'
19 methyl up. I guess under the Idenix view of the world,
20 they're all pirates. We have a whole fleet here. Only
21 one of those compounds succeed, sofosbuvir, the others all
22 failed, notwithstanding the fact that they had the 2' methyl
23 up. And I think that is also important in considering
24 whether to exercise your discretion to punish.

25 The idea of the 2' methyl up is not the entrée

1 into the cure for hepatitis C. It's the work that Michael
2 Sofia did and Jeremy Clark before him, and why would you
3 want to punish that?

4 Now, I do want to go to the *Read* factors
5 briefly, Your Honor, and I want to emphasize at most number
6 five, the closeness of the case.

7 First, when we're talking about the closeness of
8 the case, it is still true. We used to have that objective
9 test under *Seagate*, it's now gone, but the Federal Circuit
10 has made clear that even after *Halo*, you can still look at
11 the objective reasonableness of the accused infringer's
12 positions in determining whether to exercise your
13 discretion, and that's *WesternGeo*.

14 I want to point to really, I guess, two areas on
15 the closeness of the case. The first is the claim
16 construction and the second are the 112 arguments.

17 If Your Honor thinks about why was the claim
18 construction a close question and why are the 112 issues
19 close questions, it really has to do with that patent
20 specification and the fact that there's no F there. You
21 really go back into the room with Clark and Otto, looking at
22 that and, you know, do you see possession of the invention?
23 Do you see them teaching how to make this?

24 Those are the reasons why the 112 arguments,
25 however you ultimately come out, I think at least it's

1 certainly our position that these are very close calls. And
2 the same thing with the claim construction. I was looking
3 at the Court's claim construction opinion, and you
4 specifically mentioned that the failure to disclose fluorine
5 at the 2' down position gives the Court pause. It could
6 have been the case, Your Honor, that you could have stopped
7 at that pause and said, you know what, there's no fluorine
8 here. I'm not going to construe the claim to cover
9 fluorine. There would be no infringement. There would be
10 no willful infringement. We would not be talking about
11 enhancement. It was a complete defense.

12 The same could also be true with enablement.
13 You might determine ultimately that the patent is not
14 enabled, the full scope of the claim. And, again, then
15 there's no valid claim and no infringement, no willful
16 infringement and no enhancement. And so I think that that
17 is something that the Court should consider I think as one
18 of the most important issues in determining whether to
19 enhance here or not.

20 I've talked a bunch about Watanabe, Your Honor.
21 And I did want to just sort of touch briefly on -- this is
22 the point I failed to mention earlier. I wanted to make the
23 point. You heard a lot about Dr. Schinazi and what he did,
24 and Your Honor sees there's sort of a gap in the story.
25 Schinazi tells Watanabe, hey, they're looking at 2' methyl

1 up at Idenix, and then around this time Dr. Hassan is making
2 2' methyl up. And there's an actual fight within the
3 company, within Pharmasset, where did Hassan get the idea?
4 And Schinazi says, well, I told Watanabe. He must have told
5 Hassan. And Dr. Otto is saying, well, I thought Hassan, you
6 know, came here from his last employer knowing this
7 information. That's actually what Dr. Hassan had to say.
8 So this sort of fight, but even Idenix doesn't say that
9 Clark had anything to do with that. He's sort of separated
10 in time by a year from whatever Dr. Schinazi is doing to
11 what his effort is with the methyl fluoro compound. I mean,
12 there's a big disconnect between the bulk of the evidence
13 that they say is the piracy and the effort that led
14 ultimately to 6130.

15 Your Honor knows it's not improper to look at a
16 published patent application. In fact, that's often what
17 happens in research and development. We know from this very
18 case that certainly Pharmasset was looking at what Idenix
19 was doing, but Idenix was looking at what Pharmasset was
20 doing. And so here on slide 3019, we have an internal
21 Idenix communication where JP, that's John Pierre
22 Sommadossi, is still keen that we try to make a 2', fluoro
23 2' methyl analogue because he heard from Schinazi that was
24 good. There's nothing necessarily improper looking at your
25 competitor's work.

1 On this issue of copy, again, I've already
2 touched on this, so I will be very brief, Your Honor. But
3 I did want to pick up a little bit on what Mr. Singer was
4 talking about, about how counsel had said that, you know, a
5 person of skill in the art would not make a prodrug with an
6 inactive compound. He said that's exactly what Dr. Michael
7 Sofia did.

8 This slide was presented at trial. This is how
9 Dr. Sofia described how you arrive at sofosbuvir. He was
10 studying 6130, and he noticed there was an inactive
11 metabolite that was being generated, this 6206, which has a
12 methyl up and fluoro down. It has a different base. It was
13 inactive and there was a lot of it being thrown off. He was
14 trying to figure out why that was. And he figured that, he
15 learned through his work that if he made the triphosphate of
16 that, it was really active. But he had a lot of trouble, or
17 he had a big task in figuring out, how do I actually get
18 that into your body, and that's what led him to do that
19 prodrug work. Again, very far removed from anything Dr.
20 Schinazi did and certainly not something that the Court
21 should be discouraging or punishing.

22 So this is the *Halo* quote I was referring to
23 before, Your Honor, just for record. It's at page 1932 of
24 the opinion. Imitation and refinement imitation, these are
25 the things necessary to the invention itself and the very

1 lifeblood of a competitive economy. It's not wrong to say I
2 think that they're not doing this. I will go ahead and some
3 day be proved to be incorrect because of a claim
4 construction ruling that goes against you. That's not
5 something that is an act of piracy.

6 Most of the rest of this, Your Honor, we've
7 already talked about. I think maybe the last thing I will
8 focus on is concealment. Your Honor touched on it before.
9 I think Pharmasset was very open about what it was doing.
10 It was publishing its work as many small companies do, and I
11 think Idenix was very well aware, record shows, of what was
12 happening. They did not complain at the time. And I think
13 Your Honor has in the record in front of you the D.I. 556,
14 where Lorie Ann Morgan from Gilead makes the point in her
15 declaration that not only was Pharmasset not concealing at
16 the time it was doing its work, but later on when Gilead
17 acquired sofosbuvir and it got into sort of this worldwide
18 dispute with Idenix, that was all about that '600 patent,
19 which is their methyl fluoro patent, and its overseas
20 counterparts.

21 At no time did Idenix ever say in any of the
22 settlement discussions they had during the couple years of
23 litigation, you need to take a license to this '597 patent.
24 The first we knew of it, it was a bolt from the blue, is
25 when they sued us in this case, which really began in

1 Boston. So not only no concealment, but not even an
2 allegation until the case began. That was the first notice
3 that Idenix actually considered Gilead to be infringing the
4 '597 patent.

5 So that's all I have, Your Honor, unless you
6 have any specific questions.

7 THE COURT: Yes, I do. First, what about this
8 point about any credibility assessments that I may have made
9 sitting here through the trial? Is it fair for me to factor
10 that in or not?

11 MR. McCANN: It is, Your Honor. It is within
12 your discretion to make, to weigh the evidence and to make
13 determinations, including credibility, in assessing whether
14 you should or should not enhance.

15 So I do think that, although we have a JMOL on
16 willfulness and we have our arguments about whether there's
17 substantial evidence for that, but if you decide, yes, there
18 was and there is a willfulness finding, yes, then that is a
19 factor you should consider, that there is willfulness, but
20 then you, yourself, in exercising discretion can look at the
21 evidence, weigh the evidence, and ask yourself, do I think,
22 some of the cases talk about did the defendant have evidence
23 of its own invention separate from learning it from the
24 other side. In other words, do you credit Dr. Hassan and
25 Raji Kahn as they had the methyl up idea separate from

1 whenever Schinazi learned from Idenix. You can weigh that
2 evidence and decide based on that evidence in part, I'm
3 not going to enhance. You can look at the, what Clark and
4 Otto's discussion was and say, yes, it was legitimate, or I
5 credit that testimony where Dr. Otto says -- I mean, he
6 can't be making this up. There is no F in that
7 specification. There's no F there. Go ahead and make it.
8 You can credit that separate and apart from the fact that
9 you've determined that there should be a willfulness verdict
10 upheld.

11 THE COURT: There seems to be a tension there,
12 because if I uphold the willfulness verdict at least based
13 on a finding of substantial evidence, then you have to infer
14 that the jury made certain credibility determinations that
15 led it to that conclusion, it would seem, and that was
16 completely, and I don't think you are arguing to the
17 contrary, but that was their province to do. It is not my
18 job to make a credibility determination. So it would seem
19 odd that I could question that for purposes of enhancement,
20 but your position is that I can.

21 MR. McCANN: I guess first, just for the record,
22 Your Honor, we did preserve the argument that willfulness
23 ultimately is something, it should be something for the
24 Court and not the jury. I understand that the Federal
25 Circuit still has its cases that say it's still a jury

1 issue. That is something that is winding its way through
2 the courts. So it was, in this trial, it was given to the
3 jury to make that decision.

4 I don't think there is anything at all though
5 inconsistent with you analyzing the same evidence and
6 asking yourself whether or not you should enhance in making
7 determinations as to what would credit or not credit in
8 doing that. I mean they found willfulness but there is no
9 special interrogatory, so I guess nobody exactly knows why
10 they found willfulness. And it could be that they found
11 certain testimony credible and others incredible. We don't
12 really know that.

13 We're not in a JMOL context when we're talking
14 about enhancement where you must consider all the evidence
15 and weigh it in a light most favorable to Idenix in
16 determining whether to uphold willfulness or not. We're
17 talking about whether you should use your discretion in how
18 you view the evidence you heard in determining whether there
19 was piracy here by Gilead.

20 THE COURT: You mentioned you do say that there
21 is not substantial evidence for willfulness, but if I'm not
22 mistaken, it's in a footnote or you have various arguments
23 you are trying to incorporate by reference to briefs that
24 would well exceed the page limits that we set on the JMOL
25 motions.

1 Is it really Gilead's contention that all those
2 issues are ripe for me to decide and they didn't waive them?

3 MR. McCANN: I'm happy to say, Your Honor, that
4 Mr. Scherkenbach told me that he would address that if Your
5 Honor posed that question.

6 THE COURT: All right.

7 MR. McCANN: Before I turn it over to him, do
8 you have any other questions?

9 THE COURT: I do.

10 MR. McCANN: Do you want to cover those first,
11 Your Honor?

12 THE COURT: I think they even use this phrase in
13 their briefing, but the sort of heads I win/tails you lose
14 scenario. They point out, and incorrectly, that while it is
15 a large number that has already been awarded against your
16 client, it is all, strictly speaking, compensatory. And if
17 you don't enhance, in this case or let's say more generally
18 a case where there is willfulness, then what is to stop an
19 accused infringer from saying, look, worst case scenario, I
20 lose this case and I just pay what I fairly owe. I don't
21 have to worry about anything beyond that.

22 MR. McCANN: First, Your Honor, I don't think
23 that one must follow from the other. Plenty of courts have
24 willfulness findings from their juries and don't enhance.
25 And so presumably they think, under those circumstances, no

1 further punishment was required. And that is what I'm
2 saying is the case here.

3 This is a very substantial verdict, and that
4 does have I think a deterrent effect on a company who is
5 pursuing a drug. I think it acts as a very negative effect
6 on companies who might be pursuing an acquisition, what are
7 we buying here? Because even as a company that is as large
8 and successful as Gilead, \$2.54 billion is devastating. It
9 is a huge verdict that will have, and does have, a great
10 impact on that company.

11 I don't think that, you know, counsel asked
12 for double that. Under these facts, to me, that makes
13 absolutely no sense. If the issue is you had an employee
14 or not even an employee but a person associated with your
15 company who did some things he should not have done but
16 all of that in a way was mooted by the fact that Idenix
17 published that very same information, you have other persons
18 associated with your company that you someday are going to
19 acquire, you look at it and think, well, this is probably
20 going to be clear and go ahead and then prove to be wrong.
21 The \$2.54 billion Gilead has to pay here would give I think
22 a lot of companies pause: Do we want to take this on? This
23 is huge.

24 I don't think that it is necessary to add money
25 to a judgment, if that is the only way you can have

1 deterrence. The mere size of the verdict is a huge impact
2 on this industry, and that is enough, if we even get to the
3 point of thinking some deterrence is required, which, again,
4 Your Honor, I believe under the facts of this case are not
5 supported.

6 THE COURT: And you mentioned Schinazi was
7 forced out of the company in 2005 but noted I think that is
8 not in the trial record.

9 MR. McCANN: It is not.

10 THE COURT: Is it your view I could consider
11 things that are not in the trial record for this enhancement
12 decision?

13 MR. McCANN: It is my view, and also it is
14 Idenix's view, as they made clear in their opening brief.

15 THE COURT: All right. If Mr. Scherkenbach
16 wants to address the waiver et cetera question, we'll hear
17 that before we turn back to Ms. Parker.

18 MR. SCHERKENBACH: Thank you, Your Honor. Just
19 briefly on that.

20 I think it is useful to go back and look at what
21 actually happened on the JMOL on willfulness. I'll just
22 focus on willfulness because that was your question.

23 So during trial, Gilead made oral motions for
24 judgment as a matter of law that included willfulness. Then
25 in the next day or so, we filed a Rule 50(a) written motion

1 for judgment as a matter of law that included willfulness.

2 And the Court then, subsequently on the record
3 at trial, reserved judgment on JMOLs actually on both
4 sides. So the Court never actually addressed the JMOLs on
5 the willfulness, and some other issues too but let me stay
6 focused on willfulness.

7 And so when it came time to do our post-trial
8 JMOL motion, what we thought we did and what we intended to
9 do was to say essentially on those other issues, we renew
10 the JMOLs that had been made at trial because as to those,
11 the Court had not definitively ruled one way or the other.

12 On this page limit issue, there isn't, certainly
13 there was no attempt to end run on that. If you go back
14 and look at each side's Rule 50(a) motions as filed during
15 trial, each side addressed willfulness and some of these
16 other issues, the Merck issue and the priority issue, in
17 writing in roughly the same number of pages, so it's not
18 like Gilead got a bunch of pages and Idenix never had a
19 challenge to response. The record is really the same on
20 both side for those issues.

21 THE COURT: Well, I can at least say,
22 subjectively, I did not understand that when you all said
23 you were going to raise issues in post-trial motions, and I
24 think you came up with a 25 page limit, but I don't recall
25 exactly.

1 MR. SCHERKENBACH: We did.

2 THE COURT: I didn't understand that I was then
3 going to be asked to revisit issues that had been briefed
4 during trial and which I had reserved judgment. I certainly
5 would have given you more pages if I thought that was what
6 was going to happen.

7 MR. SCHERKENBACH: Well, and --

8 THE COURT: Let's, just for the moment, if that
9 was my subjective experience, why should I not say too late
10 for these issues?

11 MR. SCHERKENBACH: Well, I think our real
12 concern is with any sort of a finding -- and it is a little
13 hard to tell what Idenix is arguing here because they used
14 the word "waiver," sort of the magic word, and we certainly
15 don't want to have any finding or suggestion that that these
16 issues were waived for purposes of appeal. That really is
17 the primary driver for Gilead having renewed these motions.

18 I think if we can get past that or get some
19 comfort on that? You know, we're not expecting the Court
20 to revisit in detail the Merck issue or the priority issue
21 and, frankly, even the willfulness issue. That isn't
22 fundamentally what is driving us. It is really some sort of
23 waiver suggestion or suggestion that would say not only,
24 Judge Stark, should you not, do you not have to reconsider
25 it, but it is lost for appeal as well. Because we think we

1 clearly preserved it for appeal.

2 THE COURT: Okay.

3 MR. SCHERKENBACH: Thank you.

4 THE COURT: Thank you very much.

5 Ms. Parker, come back and address whatever you
6 would like.

7 MS. PARKER: Thank you. Your Honor, I think
8 four points cover.

9 First of all, I think I know the answer to
10 Your Honor's question. And I think I know why there are no
11 cases out there on enhancement that talk about the Court
12 considering credibility of witnesses and reexamining the
13 willfulness finding. It's because of the Seventh Amendment.
14 And so I believe that the Court cannot reexamine facts that
15 are found by the jury either found expressly or implicitly.
16 So I believe that is the answer to Your Honor's question.

17 Next point. Counsel asked, well, who are you
18 punishing, and tried to say it is not Gilead, tried to
19 distance themselves.

20 If we can pull up slide 25. 25, please.

21 There is a lot of evidence in the record as to
22 what Gilead did, not just Pharmasset. So when it purchased
23 it, it has access to all of these documents. They knew
24 about Dr. Schinazi. These same key Pharmasset employees
25 went over to Gilead, and Gilead continued to work on the

1 product. So it's not just Pharmasset. They can't divorce
2 themselves from it.

3 They also talked a lot about the compensatory
4 damages verdict was something that was important, affected
5 the company. And I just want to point out -- if we can pull
6 up slide 45. For the record, the record evidence is that
7 Gilead has \$32.4 billion in cash and cash equivalents, and
8 that from its misconduct here.

9 Let's go to slide 45.

10 That is the *Arctic Cat* case where the Court said
11 enhancement is "particularly warranted" where the defendant
12 "is a multibillion dollar enterprise and the market leader
13 -- due in significant part to sales of products found to
14 willfully infringe."

15 The next point I want cover is argument from
16 counsel on closeness of the case. Your Honor knows that is
17 only one factor, so even if the Court were to believe that
18 there was some issue that was close, I just bring to Your
19 Honor's attention the *Dominion* case that was from the
20 Eastern District of Pennsylvania last year. That is a case
21 where the Court found enhancement in doubling but also found
22 that there was the closeness of the case factor went against
23 the plaintiff but nevertheless that other factors were
24 strong.

25 And then, finally, counsel said, well, what

1 message are you sending? What message would you be sending?

2 Well, Congress says because of enhancement,
3 because of the statutory structure that is set up, Your
4 Honor need to consider the message to the inventors, to Dr.
5 Sommadossi and Dr. LaColla. They're the ones that came up
6 with this idea to begin with, and they're the ones who are
7 protected. They are the ones that are covered by this
8 enhancement provision. They're the ones that started off as
9 the heroes here. So we shouldn't forget them and their role.

10 Unless Your Honor has any questions?

11 THE COURT: The only other one, it was
12 mentioned, as you heard, Dr. Schinazi was sort of taken care
13 of in the defendants' view in 2005 when he was evidently
14 pushed out of Pharmasset.

15 Do you disagree with that? And more so, do you
16 disagree that I can consider things like that or am I
17 limited to only what was the jury verdict?

18 MS. PARKER: You are the not limited to what was
19 the jury verdict. You are limited to what is in the record.
20 And frankly I don't know. This is the first I have heard of
21 this. I don't know whether it is in the record or not. If
22 counsel says it is, I'm sure it probably is, but I just, I
23 can't speak to that.

24 But I think the point is there is all that
25 happened separate from him. It's not just him. Gilead

1 bought that company knowing what they were buying. They
2 knew they were buying Dr. Schinazi. They knew that they
3 were buying the company. They knew about all the -- they
4 acquired all those documents. They inherited all that.
5 They knew about all that. And then, remember, Dr. Schinazi
6 was still being paid by Gilead at trial here. Remember the
7 testimony on his videotape deposition that was shown to the
8 jury is that he was being paid \$800 an hour for the trial,
9 for his work at the trial. So it's not that he was gone and
10 done for forever back then.

11 Thank you, Your Honor.

12 THE COURT: Thank you.

13 Mr. McCann, anything further?

14 MR. McCANN: Just briefly, Your Honor. A couple
15 of things.

16 Counsel said that Gilead has made something like
17 \$32.4 billion and that it is all from wrongful conduct.

18 Really, that is unsupportable. That drug has
19 succeeded in a way it has or exists because of Sofia, not
20 because of Ray Schinazi.

21 Your Honor asked some questions about whether
22 you can weigh the evidence. You asked a couple of times at
23 least while I was sitting here.

24 I think in the briefing, if you look at the case
25 *Enplas Display Device v Seoul Semiconductor* or the case

1 *Sprintcom v Time Warner*, those are at least two examples
2 where the Court determined enhancement is going sort of back
3 to the record and assessing it separate and apart from what
4 the jury had to say.

5 I think that is really it, Your Honor, unless
6 you have any further questions.

7 THE COURT: No, I don't have anything further.

8 Ms. Parker.

9 MS. PARKER: No. Thank you, Your Honor.

10 THE COURT: All right. Well, our time is up.
11 The arguments have been very helpful on all issues. I
12 appreciate it very much. We will take the motions under
13 advisement; and we will be in recess.

14 (Oral argument hearing ends at 4:00 p.m.)

15
16 I hereby certify the foregoing is a true and accurate
17 transcript from my stenographic notes in the proceeding.

18 /s/ Brian P. Gaffigan
19 Official Court Reporter
20 U.S. District Court
21
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23
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